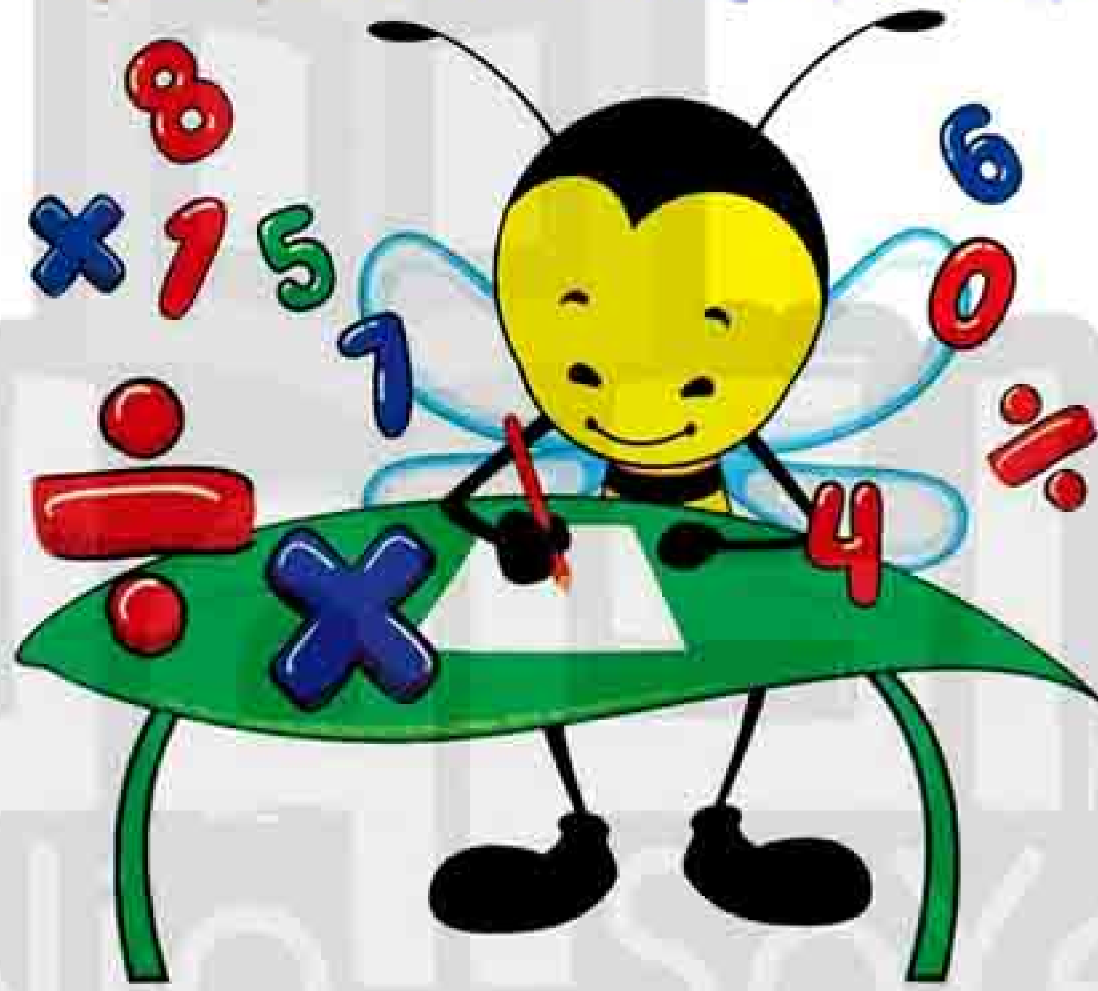
UNIT 1

Multiplication and division







Remember

Times Tables up to 9

2	3	4	5
2 x 0 = 0	3 x 0 = 0	4 x 0 = 0	5 x 0 = 0
2 x 1 = 2	3 x 1 = 3	4 x 1 = 4	5 x 1 = 5
2 x 2 = 4	3 x 2 = 6	4 x 2 = 8	5 x 2 = 10
2 x 3 = 6	3 x 3 = 9	4 x 3 = 12	5 x 3 = 15
2 x 4 = 8	3 x 4 = 12	4 x 4 = 16	5 x 4 = 20
2 x 5 = 10	3 x 5 = 15	4 x 5 = 20	5 x 5 = 25
2 x 6 = 12	3 x 6 = 18	4 x 6 = 24	5 x 6 = 30
2 x 7 = 14	3 x 7 = 21	4 x 7 = 28	5 x 7 = 35
2 x 8 = 16	3 x 8 = 24	4 x 8 = 32	5 x 8 = 40
2 x 9 = 18	3 x 9 = 27	4 x 9 = 36	5 x 9 = 45

6	7	8	9
6 x 0 = 0	7 x 0 = 0	8 x 0 = 0	9 x 0 = 0
6 x 1 = 6	7 x 1 = 7	8 x 1 = 8	9 x 1 = 9
6 x 2 = 12	7 x 2 = 14	8 x 2 = 16	9 x 2 = 18
6 x 3 = 18	7 x 3 = 21	8 x 3 = 24	9 x 3 = 27
6 x 4 = 24	7 x 4 = 28	8 x 4 = 32	9 x 4 = 36
6 x 5 = 30	7 x 5 = 35	8 x 5 = 40	9 x 5 = 45
6 x 6 = 36	7 x 6 = 42	8 x 6 = 48	9 x 6 = 54
6 x 7 = 42	7 x 7 = 49	8 x 7 = 56	9 x 7 = 63
6 x 8 = 48	7 x 8 = 56	8 x 8 = 64	9 x 8 = 72
6 x 9 = 54	7 x 9 = 63	8 x 9 = 72	9 x 9 = 81



Unit 1 LESSON 1

Multiplying by 10

You know that multiplication is repeated addition.

For Example :

- 2 × 10 = 10 + 10 = 20
- 3 × 10 = 10 + 10 + 10 = 30
- 4 × 10 = 10 + 10 + 10 + 10 = 40
- 5 × 10 = 10 + 10 + 10 + 10 + 10 = 50



- From previous , notice that :

  When we multiply each of 2 , 3 , 4 and 5 by 10

  the result is 20 , 30 , 40 and 50

Generally

When multiplying any number by 10 , just put a 0 on the right of this number.

For Example :

- 6 × 10 = 60
- 8 × 10 = 80
- 10 × 10 = 100
- 15 × 10 = 150
- 69 × 10 = 690
- 80 × 10 = 800

LESSON 1

Properties :

(1) The order in which numbers are multiplied does not affect the product.

For Example :

- $10 \times 7 = 7 \times 10 = 70$
- $10 \times 34 = 34 \times 10 = 340$

(2) The way in which numbers are grouped does not affect the product.

For Example :

- $3 \times 2 \times 5 = (3 \times 2) \times 5 = 6 \times 5 = 30$

Also , $3 \times 2 \times 5 = 3 \times (2 \times 5) = 3 \times 10 = 30$

i.e. $(3 \times 2) \times 5 = 3 \times (2 \times 5)$

How to multiply a number by a multiple of 10 ?

To multiply a number (as 4) by a multiple of 10 (as 60) , do the following :

$60 \times 4 = (10 \times 6) \times 4 = 10 \times (6 \times 4) = 10 \times 24 = 240$

Another method :

$60 \times 4 = 240$

- Multiply $6 \times 4 = 24$
- Put 0 on the right to get the result 240

Exercise 1

From the school book

1 Find the result as in the example :



EXAMPLE :

- 8 × 10 = 80
- 17 × 10 = 170

(a) 5 × 10 =	(b) 6 × 10 =
(c) 24 × 10 =	(d) 37 × 10 =
(e) 10 × 10 =	(f) 0 × 10 =
(g) 15 × 10 =	(h) 9 × 10 =

2 Complete as in the example :



EXAMPLE :

- 7 × 10 = 70
- 10 × 19 = 190

(a) ____ × 10 = 30	(b) 10 × ____ = 90
(c) ____ × 10 = 120	(d) 10 × ____ = 180
(e) ____ × 10 = 950	(f) 10 × ____ = 60
(g) ____ × 10 = 160	(h) 10 × ____ = 460
(i) 10 × ____ = 330	(j) 10 × ____ = 100

3 Complete each of the following tables :

(a) ×10

1	2	3	4	5	6	7	8	9	10
10	....	30	....	....	....	....	....	....	....

(b) ×10

2	4	....	5	....
20	....	60	....	90

(c) ×10

....	25	12	112	....
140	....	120	....	1 230

(d) ×10

10	....	200	....	1 000
....	1 000	....	0	....

4 Complete as in the example :



Example :

- 8 × 10 = 80 = 8 tens
- 6 × 10 = 60 = 6 tens

(a) 7 × 10 = ... = ... tens

(b) 5 × 10 = ... = ... tens

(c) ...... × 10 = 30 = ... tens

(d) ...... × 10 = 40 = ... tens

(e) 125 × 10 = ... = ... tens

(f) ...... × 10 = ... = 275 tens

Unit 1

5 Complete as in the example :


EXAMPLE :

9 × 10 = 9 tens = 3 tens + 6 tens = 30 + 60 = 90

ⓐ 5 × 10 = tens = 2 tens + tens = + =

ⓑ × 10 = 8 tens = tens + 4 tens = + =

ⓒ 6 × 10 = tens = ten + 5 tens = + =

ⓓ × 10 = tens = tens + 4 tens = + = 90

6 Complete the missing numbers as in the example :


EXAMPLE :

• 7 × 10 = 10 × 7 = 70 • 6 × 3 × 10 = 18 × 10 = 180

ⓐ 📖 8 × 10 = 10 × =

ⓑ 📖 10 × 12 = 12 × =

ⓒ 📖 × 10 = 10 × = 90

ⓓ 📖 × 10 = 10 × = 530

ⓔ 10 × = × 10 = 300

ⓕ 📖 5 × 7 × 10 = × 10 =

ⓖ 📖 10 × 2 × 3 = 10 × =

ⓗ 10 × = 10 × 2 × 4 =

ⓘ 8 × × 10 = 48 × 10 =

ⓙ 2 × × 10 = × 10 = 120

7 Complete using the suitable sign (> , = or <) :



- 7 × 10 [>] 10 × 5 (70, 50)
- 4 × 2 × 10 [=] 8 × 10 (80, 80)

ⓐ 📖 5 × 10 ⬜ 10 × 6	ⓑ 📖 2 × 3 × 10 ⬜ 6 × 10
ⓒ 5 × 90 ⬜ 50 + 90	ⓓ 9 × 10 ⬜ 80 + 11
ⓔ 10 × 10 ⬜ 55 + 46	ⓕ 📖 10 × 15 ⬜ 1 × 5 × 10
ⓖ 📖 9 tens ⬜ 9 × 9	ⓗ 📖 3 tens + 7 tens ⬜ 73 × 10

8 Complete as in the example :



- 10 × [5] = 10 + 40 (50)
- 2 tens + 4 tens = [6] × 10

ⓐ 10 × ⬜ = 10 + 80	ⓑ 10 × ⬜ = 10 + 90
ⓒ 10 × ⬜ = 10 + 100	ⓓ 10 × ⬜ = 10 + 250
ⓔ 10 + 800 = 10 × ⬜	ⓕ ⬜ tens = 10 + 500
ⓖ 📖 5 tens + 3 tens = ⬜ × 10	ⓗ 2 tens + 7 tens = 10 × ⬜
ⓘ 4 tens + ⬜ tens = 7 × 10	ⓙ ⬜ tens + 2 tens = 5 × 10

Unit 1

9 Complete as in the example :



• (2 × 10) + (6 × 10) = 80

• (3 × 10) + (2 × 10) = 50

ⓐ (3 × 10) + (6 × 10) =

ⓑ (5 × 10) + (× 10) = 70

ⓒ (2 × 10) + (4 × 10) =

ⓓ (4 ×) + (3 × 10) = 70

ⓔ (2 × 10) + (10 ×) = 90

ⓕ (7 × 10) + (× 10) = 80

10 Find the result following the example :



50 × 3 = (10 × 5) × 3 = 10 × (5 × 3) = 10 × 15 = 150

ⓐ 60 × 2 = (×) × 2
= 10 × (× 2)
= 10 × =

ⓑ 40 × 8 = (×) ×
= × (×)
= × =

11 Find the result of each of the following as in the example :



2 × 3
• 20 × 3 = 60

4 × 2
• 4 × 20 = 80

ⓐ 40 × 2 =

ⓑ 30 × 5 =

ⓒ 8 × 60 =

ⓓ 7 × 50 =

ⓔ 20 × 3 =

ⓕ 70 × 9 =

ⓖ 4 × 60 =

ⓗ 8 × 50 =

LESSON 1

Word Problems



EXAMPLE :

If the price of one pen is 3 pounds.
Find the price of 10 pens.



The price of 10 pens = 3 × 10 = 30 pounds.

(a)

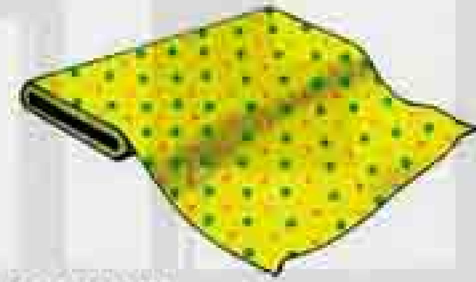
How many pounds should Raouf pay to buy 10 pencils for 2 pounds each ?

He should pay = ... × ....
= .... pounds.



(b)

If the price of one metre of cloth is L.E. 10 , find the price of 36 metres of the same kind of cloth.



The price of 36 metres = ... × .... = L.E. ....

(c)

Safaa had 10 albums of stamps of 65 stamps each.

How many stamps did she have ?

She had = ... × .... = ... stamps.



(d)

How many days are there in 10 weeks ?

There are = ... × .... = ... days.



(e)



Noura bought 10 notebooks and 2 books.
How much money did Noura pay if you know that the price of the notebook is three pounds and the price of the book is ten pounds ?

The price of notebooks = ... × .... = ... pounds.

The price of books = ... × .... = ... pounds.

What she paid = ... + ... = ... pounds.

(f)

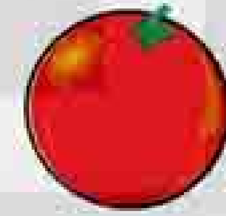


Adel bought 3 toys for L.E. 20 each one. If he had L.E. 100 How much money was left with him ?

The price of the toys = ... = L.E. ....

The left money = ... = L.E. ....

(g)



There are 7 tables of 6 bags each. If there are 10 oranges in each bag, how many oranges are there ?

There are = ... = ... oranges.

Think And Answer

Complete using the suitable sign (+ , – or ×) following the example :



EXAMPLE :

(6 [+] 4) [×] 5 = 50

① (7 3) 8 = 80	② (3 10) 4 = 34
③ (9 7) 10 = 20	④ (10 5) 7 = 43
⑤ (4 9) 10 = 130	⑥ 9 (2 8) = 90



Unit 1 LESSON 2

Multiplying by 100

- **You know that :**
  - 2 × 100 = 100 + 100 = 200
  - 3 × 100 = 100 + 100 + 100 = 300
  - 4 × 100 = 100 + 100 + 100 + 100 = 400
  - 5 × 100 = 100 + 100 + 100 + 100 + 100 = 500



- From previous , notice that :

  When we multiply each of 2 , 3 , 4 and 5 by 100 , the result is 200 , 300 , 400 and 500

Generally

When multiplying any number by 100 , just put 2 zeroes (00) on the right of this number.

For Example :

- 7 × 100 = 700
- 9 × 100 = 900
- 10 × 100 = 1 000
- 15 × 100 = 1 500
- 53 × 100 = 5 300
- 342 × 100 = 34 200

Remember that

- **1 hundred = 10 tens**
- **2 hundreds = 20 tens**
- **7 hundreds = 70 tens**
- **15 hundreds = 150 tens , etc.**

How to multiply a number by a multiple of 100 ?

To multiply a number (as 4) by a multiple of 100 (as 700) , do the following :

4 × 700 = 4 × (7 × 100) = (4 × 7) × 100 = 28 × 100 = 2 800

Another method :

4 × 700 = 2 800

- Multiply 4 × 7 = 28
- Put 00 on the right to get the result 2 800

Note that :

- 40 × 30 = (4 × 10) × (3 × 10) = 4 × 3 × 10 × 10 = 12 × 100 = 1 200

Another method :

40 × 30 = 1 200

- Multiply 4 × 3 = 12
- Put 00 on the right to get the number 1 200



Exercise 2

From the school book

1 Find the result as in the example :



- 7 × 100 = 700
- 100 × 17 = 1 700

(a) 3 × 100 =

(b) 5 × 100 =

(c) 100 × 35 =

(d) 10 × 100 =

(e) 90 × 100 =

(f) 0 × 100 =

2 Complete as in the example :



- 8 × 100 = 800
- 100 × 16 = 1 600

(a) ...... × 100 = 900

(b) 100 × ...... = 500

(c) ...... × 100 = 1 200

(d) 100 × ...... = 1 800

(e) ...... × 37 = 3 700

(f) 24 × ...... = 2 400

(g) 100 × ...... = 1 000

(h) 70 × ...... = 7 000

(i) 100 × ...... = 23 200

(j) 725 × ...... = 72 500

3 Complete each of the following tables :

(a) ×100

3	5	....	9	....
300	....	700	....	400

Unit 1

ⓑ

....	36	15	432	....	×100 →
1 800	....	1 500	....	82 500	←

ⓒ

10	....	300	....	0	×100 →
....	10 000	....	90 000	....	←

4 Complete as in the following example :



EXAMPLE :

7 × 100 = 700 = 7 hundreds

ⓐ 8 × 100 = ... = ... hundreds

ⓑ 25 × 100 = ... = ... hundreds

ⓒ ...... × 100 = 400 = ... hundreds

ⓓ ...... × 100 = ... = 5 hundreds

ⓔ ...... × 100 = ... = 10 hundreds

ⓕ ...... × 100 = ... = 30 hundreds



5 Complete as in the following example :



EXAMPLE :

10 × 100 = 10 hundreds = 6 hundreds + 4 hundreds

= 600 + 400 = 1 000

ⓐ 5 × 100 = ... hundreds = 3 hundreds + ... hundreds

= ...... + ... = ...

ⓑ ____ × 100 = 7 hundreds = ____ hundreds + 4 hundreds
= ____ + ____ = ____

ⓒ 8 × 100 = ____ hundreds = 7 hundreds + ____ hundred
= ____ + ____ = ____

ⓓ ____ × 100 = ____ hundreds = 3 hundreds + ____ hundreds
= ____ + ____ = 600

6 Complete the missing numbers following the example :



EXAMPLE :

- **2 × 100 = 100 × 2 = 200**
- **3 × 6 × 100 = 18 × 100 = 1 800**

ⓐ 6 × 100 = 100 × ____ = ____

ⓑ 100 × 28 = ____ × 100 = ____

ⓒ ____ × 100 = 100 × ____ = 700

ⓓ ____ × 100 = 100 × ____ = 7 400

ⓔ 100 × ____ = ____ × 100 = 7 000

ⓕ 2 × 4 × 100 = ____ × 100 = ____

ⓖ 6 × 8 × 100 = ____ × 100 = ____

ⓗ 100 × 5 × 7 = 100 × ____ = ____

ⓘ 9 × ____ × 100 = 27 × 100 = ____

ⓙ 2 × 4 × 100 = ____



7 If you know that 1 metre = 100 centimetres , complete following the example :



EXAMPLE :

5 metres = 500 centimetres. because 5 × 100 = 500

(a) 7 metres = ______ centimetres. because 7 × 100 = ______

(b) 9 metres = ______ centimetres. because ______ × 100 = ______

(c) 25 metres = ______ centimetres. because ______ × 100 = ______

(d) 57 metres = ______ cm. because ______ × ______ = ______

(e) ______ metres = 400 cm.

(f) ______ metres = 1 500 centimetres.

(g) ______ metres = 1 000 centimetres.

(h) 15 metres + 5 cm. = ______ cm.

8 If you know that 1 pound = 100 piastres , complete following the example :



EXAMPLE :

3 pounds = 300 piastres.



(a) 8 pounds = ______ piastres.

(b) 4 pounds = ______ piastres.

(c) ______ pounds = 900 piastres.

(d) ______ pounds = 2 500 piastres.

(e) 312 pounds = ______ piastres.

(f) ______ pounds = 10 000 piastres.

9 Choose the correct answer :

(a) 100 × 56 = ______ (5 600 or 6 500 or 560)

(b) 4 × ______ × 100 = 1 200 (40 or 12 or 3)

ⓒ 70 × 40 =	hundreds.	(11 or 28 or 74)
ⓓ 4 metres =	cm.	(4 or 40 or 400 or 4 000)
ⓔ 85 pounds =	piastres.	(8 500 or 850 or 85)
ⓕ 350 tens =	hundreds.	(35 or 3 500 or 35 000)

10 Complete using (> , = or <) :



EXAMPLE :

700   400   600 piastres

• **7 × 100** [>] **100 × 4**   • **500 piastres** [<] **6 pounds.**

ⓐ 9 × 100	100 × 11	ⓑ 📖 52 × 100	25 × 100
ⓒ 📖 18 × 10	8 × 100	ⓓ 6 × 100	6 + 100
ⓔ 📖 6 × 100	2 × 3 × 10	ⓕ 📖 2 × 7 × 100	14 × 10
ⓖ 10 × 170	100 × 17	ⓗ 8 × 100	80 × 5
ⓘ 50 × 80	4 × 100	ⓙ 20 × 40	3 × 300
ⓚ 18 × 100	180 + 100	ⓛ 5 × 100	600 – 50
ⓜ 📖 Seven hundreds	7 × 100	ⓝ 70 tens	20 × 30
ⓞ 📖 6 metres	500 centimetres	ⓟ 34 pounds	4 300 piastres

Unit 1

11 Complete following the example :



EXAMPLE :

100 × 7 = 100 + 600



ⓐ 100 × ____ = 100 + 400	ⓑ 100 × ____ = 100 + 900
ⓒ 100 × ____ = 100 + 1 000	ⓓ 100 × ____ = 100 + 3 500
ⓔ 100 × ____ = 100 + 5 000	ⓕ 100 × ____ = 100 + 7 000

12 Complete following the example :



EXAMPLE :

(3 × 100) + (2 × 100) = 500



ⓐ (2 × 100) + (6 × 100) = ____	ⓑ (5 × 100) + (____ × 100) = 900
ⓒ (____ × 100) + (3 × 100) = 700	ⓓ (4 × ____) + (4 × 100) = 800
ⓔ (6 × 100) + (100 × ____) = 900	ⓕ (5 × 100) + (____ × 100) = 600

13 Complete following the example :



EXAMPLE :

70 × 20 = 100 × 14 = 1 400

ⓐ 📖 20 × 90 = 100 × ____ = ____

ⓑ 50 × 80 = 100 × ____ = ____

ⓒ 📖 40 × 60 = ____ × ____ = ____

ⓓ 70 × 30 = ____ × ____ = ____

ⓔ 50 × 30 = ____ × ____ = ____

ⓕ 90 × 40 = ____ × ____ = ____



14 Join the equal results as in the example :

(6 × 30) + (6 × 70)	3 × 100
(4 × 10) + (4 × 90)	4 hundreds
(6 × 100) + (100 × 6)	6 × 100
7 hundreds – 40 tens	10 × 100
(9 × 100) + (1 × 100)	3 × 4 × 100

15 Find the result following the example :



EXAMPLE :

600 × 4 = (100 × 6) × 4 = 100 × (6 × 4) = 100 × 24 = 2 400

ⓐ 400 × 3 = (____ × ____) × 3 = 100 × (____ × 3) = 100 × ____ = ____

ⓑ 300 × 7 = (100 × ____) × ____ = 100 × (____ × ____) = 100 × ____ = ____

ⓒ 800 × 2 = (____ × ____) × ____ = ____ × (____ × ____) = ____ × ____ = ____

ⓓ 9 × 500 = ____ × (____ × ____) = (____ × ____) × ____ = ____ × ____ = ____

16 Find the result of each of the following as in the example :



EXAMPLE :

4 × 2
• 400 × 2 = 800

3 × 6
• 30 × 60 = 1 800

ⓐ 300 × 3 = ____

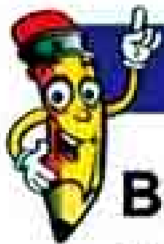
ⓑ 800 × 6 = ____

ⓒ 7 × 400 = ____

ⓓ 5 × 900 = ____

(e) 40 × 60 =	(f) 30 × 90 =
(g) 50 × 30 =	(h) 60 × 60 =

Word Problems



EXAMPLE :

Bassem bought a notebook of 100 pages.
Each page has 23 lines.
How many lines are there in this notebook ?

The number of lines = 100 × 23 = 2 300 lines.



(a)

A train has 9 carriages and each carriage has 100 seats. How many seats are there in the train ?

There are = ... × .... = ... seats.



(b)

If the price of one blender is L.E. 100 , find the price of 15 blenders.

The price of 15 blenders = ... × .... = L.E. ....



(c)

A bottle holds 100 grams of medicine.
How many grams are there in 20 bottles ?

There are = ... = ... grams.



(d)

If the price of a radio set is L.E. 200
Find the price of 9 sets.

The price of 9 sets = ... = ...



(e)



If you know that Adel's father saves 100 pounds a month regularly, complete :

What he saves in 8 months = ... pounds.

because 8 × 100 = ...

What he saves in 10 months = ... pounds.

because 10 × 100 = ...

What he saves in a whole year = ... pounds.

because .... × .... = ...

(f)



If the monthly salary of a man is L.E. 700 , find his salary in half a year and in a whole year.

The salary in half of a year = ... = ...

The salary in a whole year = ... = ...

(g)



If we have 100 cupboards of 3 shelves each , and each shelf contains 7 books. How many books are there in all cupboards ?

There are = ...

Think And Answer

True or false :

If we multiply a number by 10 and then we multiply the answer by 10 , we will obtain the same result as if we have multiplied the same number by 100

Give an example :

....

....



Unit 1 LESSON 3

Multiplying by 1 000

- **You know that :**
  - 2 × 1 000 = 1 000 + 1 000 = 2 000
  - 3 × 1 000 = 1 000 + 1 000 + 1 000 = 3 000
  - 4 × 1 000 = 1 000 + 1 000 + 1 000 + 1 000 = 4 000
  - 5 × 1 000 = 1 000 + 1 000 + 1 000 + 1 000 + 1 000 = 5 000



- From previous , notice that :
  When we multiply each of 2 , 3 , 4 and 5 by 1 000
  , the result is 2 000 , 3 000 , 4 000 and 5 000

Generally

When multiplying any number by 1 000 , put 3 zeroes (000) on the right of this number.

For Example :

- 7 × 1 000 = 7 000
- 10 × 1 000 = 10 000
- 30 × 1 000 = 30 000
- 6 × 1 000 = 6 000
- 24 × 1 000 = 24 000
- 40 × 1 000 = 40 000

Remember that

- **1 thousand = 10 hundreds = 100 tens**
- **2 thousands = 20 hundreds = 200 tens**
- **3 thousands = 30 hundreds = 300 tens , etc.**

How to multiply a number by a multiple of 1 000 ?

To multiply a number (as 3) by a multiple of 1 000 (as 6 000) , do the following :

$3 \times 6\,000 = 3 \times (6 \times 1\,000)$

$= (3 \times 6) \times 1\,000$

$= 18 \times 1\,000 = 18\,000$

Another method :

$3 \times 6\,000 = 18\,000$

- Multiply $3 \times 6 = 18$
- Put 000 on the right to get the result 18 000

Exercise 3

📖 From the school book

1 Find the result as in the example :





- 5 × 1 000 = 5 000
- 1 000 × 35 = 35 000

(a) 📖 3 × 1 000 =	(b) 📖 1 000 × 6 =
(c) 📖 45 × 1 000 =	(d) 1 000 × 78 =
(e) 10 × 1 000 =	(f) 70 × 1 000 =

2 Complete as in the example :



- 9 × 1 000 = 9 000
- 1 000 × 74 = 74 000

(a) × 1 000 = 8 000	(b) 1 000 × = 25 000
(c) × 1 000 = 71 000	(d) 1 000 × = 10 000
(e) × 1 000 = 0	(f) 1 000 × = 50 000

3 Complete each of the following tables :

(a) × 1 000

2	4	....	8	....
2 000	....	5 000	....	9 000

(b) × 1 000

....	28	32	55	....
14 000	....	32 000	....	64 000

ⓒ

25	....	30	....	0	× 1 000
....	40 000	....	1 000	....	

4 Complete as in the following example :

EXAMPLE :

4 × 1 000 = 4 000 = 4 thousands

ⓐ 3 × 1 000 = = thousands

ⓑ 15 × 1 000 = = thousands

ⓒ × 1 000 = 5 000 = thousands

ⓓ × 1 000 = = 7 thousands

ⓔ × 1 000 = = 10 thousands

ⓕ 1 000 × = = 27 thousands

5 Complete as in the following example :

EXAMPLE :

10 × 1 000 = 10 thousands = 7 thousands + 3 thousands
= 7 000 + 3 000 = 10 000

ⓐ 6 × 1 000 = thousands = 4 thousands + thousands
= + =

ⓑ × 1 000 = 9 thousands = thousands + 6 thousands
= + =

ⓒ 3 × 1 000 = thousands = 2 thousands + thousand
= + =

ⓓ × 1 000 = thousands = thousands + 4 thousands
= + = 8 000



6 Complete the missing numbers following the example :

EXAMPLE :

- 4 × 1 000 = 1 000 × 4 = 4 000
- 3 × 5 × 1 000 = 15 × 1 000 = 15 000

ⓐ 7 × 1 000 = 1 000 × ____ = ____

ⓑ ____ × 1 000 = 1 000 × 5 = ____

ⓒ ____ × 1 000 = 1 000 × ____ = 9 000

ⓓ ____ × 1 000 = 1 000 × ____ = 18 000

ⓔ 2 × 4 × 1 000 = ____ × 1 000 = ____

ⓕ 5 × 7 × 1 000 = ____ × 1 000 = ____

ⓖ 1 000 × 4 × 3 = 1 000 × ____ = ____

ⓗ 2 × 2 × 1 000 = ____

ⓘ 1 000 × 3 × 6 = ____

ⓙ 7 × 9 × 1 000 = ____

ⓚ 6 × 6 × 1 000 = ____

ⓛ 2 × ____ × 1 000 = 1 000 × ____ = 10 000

ⓜ 3 × ____ × 1 000 = ____ × 1 000 = 6 000

ⓝ 7 × ____ × 1 000 = 1 000 × ____ = 56 000

ⓞ ____ × ____ × 1 000 = 24 000



7 Complete as in the example :



EXAMPLE :

(2 × 1 000) + (3 × 1 000) = 5 000



ⓐ (3 × 1 000) + (4 × 1 000) =

ⓑ (6 × 1 000) + (× 1 000) = 8 000

ⓒ (× 1 000) + (5 × 1 000) = 9 000

ⓓ (2 ×) + (2 × 1 000) = 4 000

ⓔ (3 × 1 000) + (1 000 ×) = 10 000

ⓕ (8 × 1 000) + (× 1 000) = 19 000

8 Underline the correct answer :



EXAMPLE :

5 × 1 000 = (5 or 50 or 500 or 5 000)

ⓐ 6 × 1 000 = (6 or 60 or 600 or 6 000)

ⓑ 1 000 × 4 = (Four thousands or Four hundreds or Four tens)

ⓒ 2 × 4 × 1 000 = (2 000 or 4 000 or 8 000)

ⓓ 0 × 5 000 = (0 or 1 or 5 or 5 000)

ⓔ (4 × 1 000) – (2 × 1 000) = (2 × 100 or 20 × 10 or 2 × 10 or 2 × 1 000)

ⓕ 80 hundreds = (8 × 1 000 or 8 × 100 or 80 × 10 or 8 × 1)

ⓖ 7 000 tens = hundreds (70 000 or 7 000 or 700 or 70)

Unit 1

9 Complete the following table :

Number	× 10	× 100	× 1 000
6	60	600	6 000
....	80	....	....
....	....	....	7 000
12	....	....	....
....	....	2 500	....
....	....	....	90 000



10 Find the result following the example :



EXAMPLE :

4 000 × 3 = (1 000 × 4) × 3 = 1 000 × (4 × 3)
= 1 000 × 12 = 12 000

ⓐ 2 000 × 8 = (×   ) × 8 = 1 000 × (× 8)
= 1 000 ×   =

ⓑ 7 000 × 5 = (1 000 ×   ) ×   = 1 000 × (×   )
= 1 000 ×   =

ⓒ 6 000 × 4 = (×   ) ×   =   × (×   )
=   ×   =

ⓓ 7 ×   × 1 000 = 21 ×

11 **Find the result of each of the following as in the example :**



EXAMPLE :

- 5 000 × 3 = 15 000 (5 × 3)
- 4 000 × 20 = 80 000 (4 × 2)

ⓐ 8 000 × 3 =	ⓑ 7 000 × 5 =
ⓒ 6 × 2 000 =	ⓓ 4 × 3 000 =
ⓔ 📖 300 × 50 =	ⓕ 📖 200 × 80 =
ⓖ 30 × 2 000 =	ⓗ 2 000 × 40 =

12 📖 **Complete :**

ⓐ 300 × 40 = 1 000 × .... = ...

ⓑ 8 × 500 = ... × 1 000 = ...

ⓒ 6 × 2 000 = ... × 1 000 = ...

ⓓ 100 × 170 = 1 000 × .... = ...

ⓔ .... × 10 = 52 × 1 000 = ...

ⓕ .... × 100 = ... × 1 000 = 7 000



Unit 1

13 Complete using (> , = or <) :



EXAMPLE :

• 1 000 × 8 [>] 1 035 + 6 443 (8 000) (7 478)

• 1 000 × 12 [=] 10 500 + 1 500 (12 000) (12 000)

ⓐ 100 × 2 ___ 1 000 × 2	ⓑ 7 × 1 000 ___ 8 000 – 500
ⓒ 5 × 1 000 ___ 9 × 100	ⓓ 50 × 300 ___ 15 × 1 000
ⓔ 100 × 100 ___ 1 000 × 10	ⓕ 30 × 400 ___ 200 × 60

ⓖ (3 × 1 000) + (3 × 1 000) ___ ten thousands

ⓗ 1 000 × 3 ___ (100 × 24) + (100 × 6)

14 Complete as in the example :



EXAMPLE :

10 × 500 = 100 × [50]

= 1 000 × [5] = [5 000]

ⓐ 100 × 60 = 10 × ___ = 1 000 × ___ = ___

ⓑ 20 × 600 = 1 000 × 3 × ___

ⓒ 30 × 600 = 1 000 × 2 × ___

ⓓ 40 × 500 = 1 000 × 2 × ___



LESSON 3

Word Problems



EXAMPLE :

If the monthly salary of Ahmed is L.E. 1 000
Find his salary in 4 months.



The salary in 4 months = 1 000 × 4 = L.E. 4 000

(a)

If the price of a TV set is L.E. 1 000 , find the price of 6 sets.



The price of 6 sets = ... × .... = L.E. ....

(b)

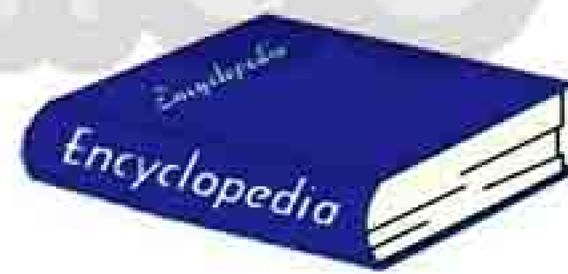
If the number of visitors of a garden is 1 000 every day. Find the number of visitors in a week.



The number of visitors in a week = ... × ....
= .... visitors.

(c)

Sameh buys an encyclopedia of 1 000 pages. Each page has 42 lines. How many lines are there in this encyclopedia ?



The number of lines = ... × .... = ...

(d)

The price of a bicycle is 1 000 times the price of a pencil. If the price of the pencil is 25 piastres , find the price of the bicycle.

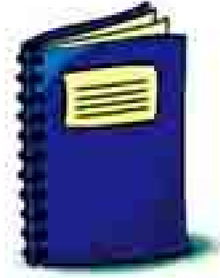


The price of the bicycle = ... × .... = ...

Unit 1

(e)

An owner of a library bought 1 000 notes , if the price of the note is 14 pounds. Find the total money he paid.



He paid = ... = ... pounds.

(f)

The average profit of a shop is 1 000 pounds a week. What do you expect the profit to be in :



① Six weeks ? ....

② Eight weeks ? ....

③ Twenty weeks ? ....

(g)

A merchant bought 10 TV sets for L.E. 2 000 each and 5 radio sets for L.E. 100 each.
Find the price of all sets.



The price of TV sets = ...



The price of radio sets = ...

The price of all sets = ...

(h)

If the monthly salary of an engineer is L.E. 1 000
Find his salary in 2 years.



The salary in 2 years = ... × (......... × ....)
= .... × .... = L.E. ....

Think And Answer

True or false :

If we multiply a number by 10 and then we multiply the answer by 100 , we will obtain the same result as if we have multiplied the same number by 1 000

Give an example :

....

....



LESSON 4

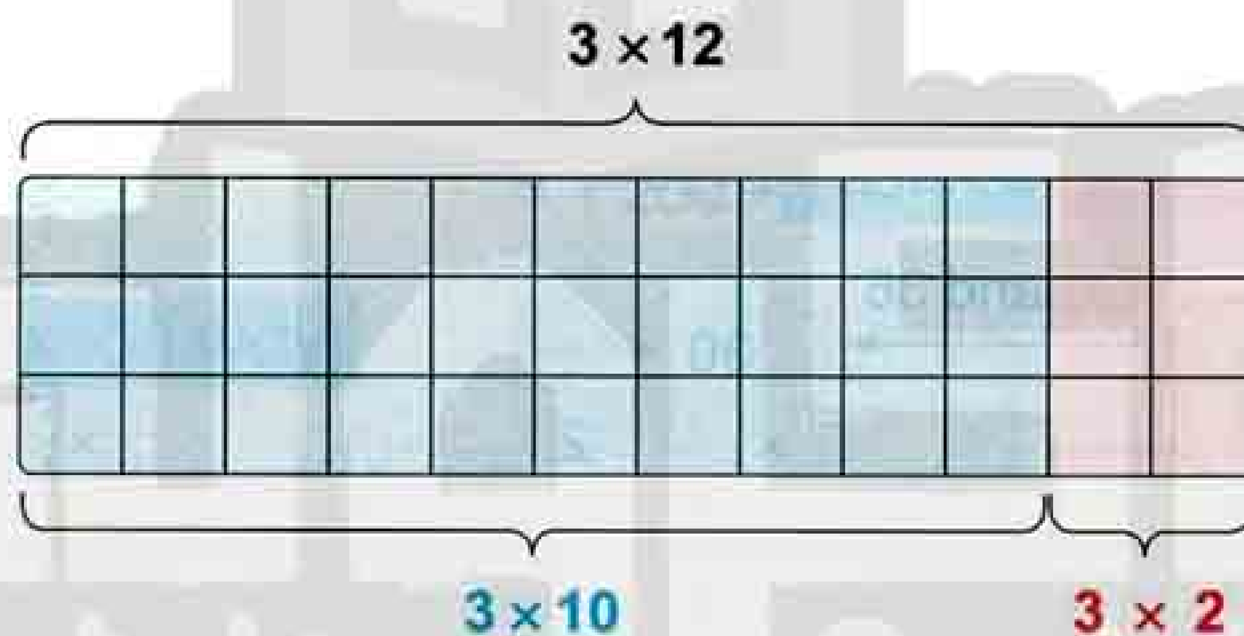
Multiplying a 2-digit number or more by a 1-digit number

You can multiply numbers by many ways.
In this lesson we will introduce two ways to multiply numbers.

- **First way :** Expanded way.
- **Second way :** Short way.

First way : Expanded way

To find the product as **3 × 12** , do as follow :



$3 \times 12 = 3 \times 10 + 3 \times 2 = 30 + 6 = 36$

Note that : 12 is expanded as (10 + 2)

The solution can be written in the following form :

$\begin{array}{r} 12 \\ \times \ 3 \\ \hline \end{array}$ → Expand 12 → $\begin{array}{r} 10 + 2 \\ \times \quad 3 \\ \hline 30 + 6 \end{array}$ → Add the results → $\begin{array}{r} 12 \\ \times \ 3 \\ \hline 36 \end{array}$

- **You can also write :**

$3 \times 12 = 3 \times (10 + 2) = (3 \times 10) + (3 \times 2) = 30 + 6 = 36$

Second way : Short way

12 × 3	→	$\begin{array}{r} 12 \\ \times\ 3 \\ \hline 6 \end{array}$	→	$\begin{array}{r} 12 \\ \times\ 3 \\ \hline 36 \end{array}$
Align the numbers on the right-hand side.		$3 \times 2 = 6$		$3 \times 1 = 3$

Example 1

Find the product of 2 × 36

Solution

1st way (expanded way)

$$\begin{array}{r} 36 \\ \times\ 2 \\ \hline \end{array} \xrightarrow{\text{Expand 36}} \begin{array}{r} 30 + 6 \\ \times\ \ \ \ \ 2 \\ \hline 60 + 12 \end{array} \xrightarrow[\text{the results}]{\text{Add}} \begin{array}{r} 36 \\ \times\ 2 \\ \hline 72 \end{array}$$

- **You can also write :**

$2 \times 36 = 2 \times (30 + 6) = (2 \times 30) + (2 \times 6) = 60 + 12 = 72$

2nd way (short way)

$\begin{array}{r} 36 \\ \times\ 2 \\ \hline \end{array}$	→	$\begin{array}{r} ^{1}\ \ \\ 36 \\ \times\ 2 \\ \hline 2 \end{array}$	→	$\begin{array}{r} ^{1}\ \ \\ 36 \\ \times\ 2 \\ \hline 72 \end{array}$
Align the numbers on the right-hand side.		$2 \times 6 = 12$ Keep 2 units in the units column and carry 10 units (1 ten) to the tens column.		$(2 \times 3) + 1 = 7$

Carried over from the units column.

Example 2

Find the product of 4 × 364

Solution

1st way (expanded way)

364 × 4	Expand 364 →	300 + 60 + 4 × 4 = 1 200 + 240 + 16	Add the results →	364 × 4 = 1456

- **You can also write :**

$4 \times 364 = 4 \times (300 + 60 + 4) = (4 \times 300) + (4 \times 60) + (4 \times 4)$

$= 1\,200 + 240 + 16 = 1\,456$

2nd way (short way)

364 × 4 = 6 (carry 1)	364 × 4 = 56 (carry 2, 1)	364 × 4 = 1456
$4 \times 4 = 16$ Keep 6 in the units column and carry 1 ten to the tens column.	$(4 \times 6) + 1 = 25$ Keep 5 in the tens column and carry 2 hundreds to the hundreds column.	$(4 \times 3) + 2 = 14$ Carried over from the tens column.

Exercise 4

From the school book

1 Find the result of each of the following as in the example :



EXAMPLE :

(1) 46 × 3 = 138	(2)(2) 157 × 4 = 628	(4)(1)(2) 1623 × 7 = 11361

(a) 56 × 3	(b) 53 × 4	(c) 72 × 6
(d) 48 × 7	(e) 27 × 8	(f) 236 × 4
(g) 348 × 6	(h) 635 × 5	(i) 128 × 6
(j) 316 × 9	(k) 2234 × 2	(l) 6234 × 3
(m) 5489 × 4	(n) 6743 × 9	(o) 2347 × 5

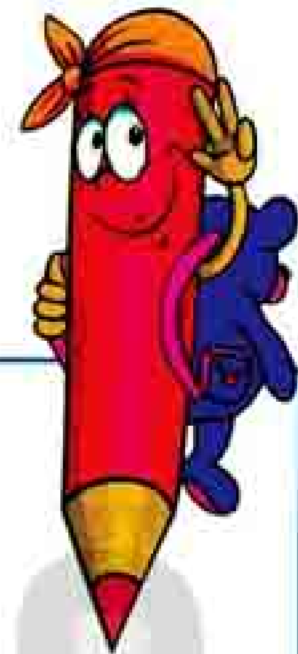
ⓟ 1842 × 8	ⓠ 2432 × 9

2 **Find the result following the example :**



EXAMPLE :

- 34 × 7 = 238 (carry: 2)
- 674 × 8 = 5 392 (carries: 5, 3)



ⓐ 📖 43 × 5 =	ⓑ 56 × 4 =
ⓒ 📖 76 × 4 =	ⓓ 80 × 7 =
ⓔ 📖 286 × 6 =	ⓕ 📖 304 × 2 =
ⓖ 459 × 7 =	ⓗ 📖 555 × 7 =
ⓘ 317 × 6 =	ⓙ 507 × 9 =
ⓚ 542 × 6 =	ⓛ 7 × 749 =
ⓜ 1 518 × 2 =	ⓝ 5 × 7 801 =
ⓞ 6 005 × 4 =	ⓟ 📖 2 261 × 7 =
ⓠ 📖 5 092 × 4 =	ⓡ 📖 3 002 × 5 =
ⓢ 📖 2 211 × 9 =	ⓣ 📖 5 678 × 4 =
ⓤ 3 × 2 016 =	ⓥ 8 × 11 347 =

3 Show if the result is true or false as in the example :



Example :

- 76 × 2 = 152 **True**
- 132 × 4 = 428 **False**

ⓐ 35 × 4 = 140

ⓑ 62 × 7 = 434

ⓒ 25 × 3 = 65

ⓓ 426 × 2 = 832

ⓔ 120 × 6 = 720

ⓕ 165 × 3 = 385

ⓖ 📖 9 × 6 124 = 55 116

ⓗ 2 124 × 4 = 8 416

ⓘ 2 × 3 × 115 = 690

ⓙ 📖 2 × 5 × 637 = 60 370

4 Complete in the same sequence (pattern) :

ⓐ 8 , 16 , 32 , ... , ... , ...

ⓑ 3 , 9 , 27 , ... , ... , ...

ⓒ 5 , 10 , 15 , 20 , 25 , ... , ... , ...

ⓓ 📖 6 , 36 , 216 , ... , ...

ⓔ 7 , 14 , 21 , ... , ... , ...

ⓕ 📖 5 , 25 , 125 , 625 , ... , ...



5 Choose the correct answer :

ⓐ 68 × 3 = ... (184 or 204 or 1 824)

ⓑ 364 × 2 = ... (728 or 782 or 628)

ⓒ 62 × 5 > .... (600 or 500 or 400 or 300)

ⓓ 456 × 5 = ... tens. (2 280 or 2 080 or 2 250 or 228)

ⓔ 1 322 × 4 = ... (5 288 or 5 882 or 5 828 or 2 858)

ⓕ 308 × 7 = 2 150 + ... (3 or 6 or 8)

6 Put (> , = or <) in the blanks following the example :


EXAMPLE :

- 56 × 6 [>] 306 (336)
- 113 × 5 [<] 200 × 3 (565) (600)

ⓐ 103 × 5	1 505	ⓑ 35 × 4	18 × 6
ⓒ 48 × 3	23 × 9	ⓓ 283 × 3	200 × 4
ⓔ 618 × 5	2 × 3 × 515	ⓕ 254 × 6	254 × 5
ⓖ 📖 286 × 3	200 × 4	ⓗ 📖 1 234 × 9	3 702 × 3
ⓘ 📖 6 594 × 6	7 912 × 5	ⓙ 📖 2 465 × 7	2 875 × 6

ⓚ 2 168 × 2 (4 336 × 2) + (4 336 × 8)

7 Arrange the results in an ascending order following the example :


EXAMPLE :

36 × 3 (108) , 25 × 4 (100) , 13 × 7 (91) and 16 × 8 (128)

The order is : 91 , 100 , 108 and 128

ⓐ 54 × 6 , 28 × 9 , 71 × 7 and 45 × 5

The order is : ....

ⓑ 125 × 2 , 4 × 143 , 162 × 3 and 107 × 5

The order is : ....

ⓒ 2 134 × 5 , 6 041 × 2 , 6 × 3 812 and 1 510 × 9

The order is : ....

8 Match the equal results :



2 600 × 3	2 × 3 × 29
8 976 × 7	780
156 × 5	78 hundreds
3 × 58	(8 976 × 2) + (5 × 8 976)

9 Complete the missing digits as in the following example :



146 × 3 = 4 [3] 8	[2] 74 × 6 = 16 [4] 4

(a) 123 × 5 = 6 _ 5	(b) 287 × 4 = 1 _ 4	(c) 968 × 6 = 5 _ 8
(d) 📖 6 _ 57 × 6 = 3 _ 7 _ 2	(e) _ 45 × 7 = 4 5 _ 5	(f) 5 _ 32 × 7 = _ 7 282
(g) 15 _ 4 × 9 = 3 _ 716	(h) 📖 5 _ 86 × 6 = 347 _	(i) 31 _ 6 × 2 = 6 _ 9

(j) 📖 98 × 5 = 3 490

(k) 📖 5 × 4 _ 3 = 2 _ 31

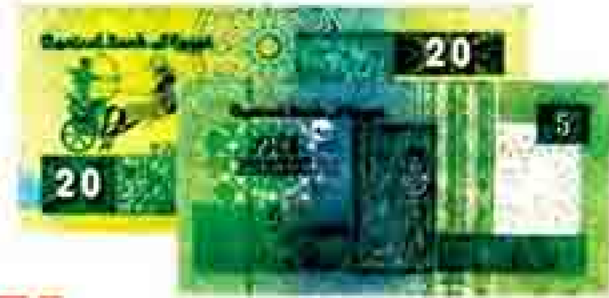
LESSON 4

Word Problems



EXAMPLE :

Mona saves L.E. 25 every month. How much money does she save in 7 months ?



In 7 months , Mona saves = 25 × 7 = L.E. 175

(a)

Hassan bought 3 toys for 12 pounds each.
How much do they all cost ?

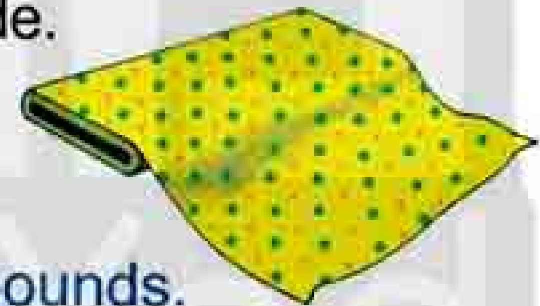


The price of toys = ... × ....

= .... pounds.

(b)

Mostafa bought 3 metres of cloth to have a suit made.
How much money did Mostafa pay if the price of 1 metre is 89 pounds ?



The price of the cloth = ... × .... = ... pounds.

(c)

A merchant bought 136 pieces of chocolate for L.E. 6 each.
What was the price of all pieces ?



The price of all pieces = ... × .... = L.E. ....

(d)

In a health unit , 564 children are vaccinated a day.
How many children are vaccinated in 4 days ?



The number of children = ...

= .... children.

(e)



Khaled bought a jacket for L.E. 130 and 5 books for L.E. 18 each. Find the total money he paid.

The price of the books = ………… × ………… = L.E. …………

The total he paid = ………… + ………… = L.E. …………

(f)



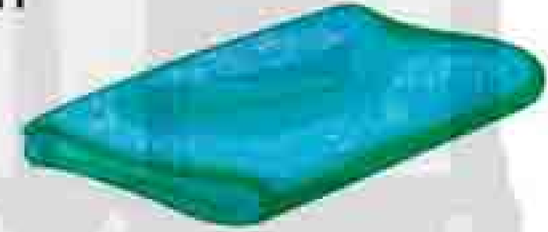
A merchant had 7 boxes of soap of 56 bars each. He sold 360 bars. How many bars were left ?

The number of bars in 7 boxes = ………… × …………

= ………… bars.

The number of left bars = ………… – ………… = ………… bars.

(g)



Ahmed bought 5 metres of cloth for 13 pounds each , if he had 100 pounds. How much money were remained with him ?

The price = ……………………… = ………… pounds.

The remained = ……………………… = ………… pounds.

(h)



A fruitseller has 8 boxes of 108 red apples each and 7 boxes of 75 yellow apples each.
Find the number of all apples.

The number of red apples = ……………………… = …………

The number of yellow apples = ……………………… = …………

The number of all apples = ……………………… = …………

(i)

Amin bought 4 toys for 20 pounds each and 2 books for 12 pounds each.

How much money did he pay for all ?





The sum Amin paid = (………… × …………) + (………… × …………)

= ………… pounds.

(j)

Ramy bought 2 books for 3 pounds each and 5 pens for 2 pounds each , if the remainder with him is 4 pounds.

How much money did he have ?

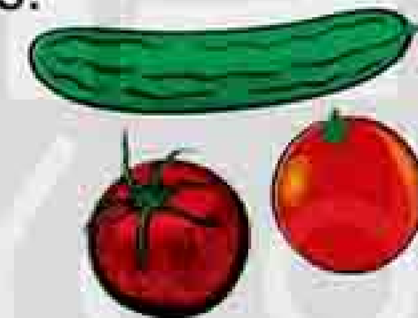
He paid = (………… × …………) + (………… × …………)

= ………… pounds.

Total money he had = ………… + 4 = ………… pounds.

(k)

Mahmoud went to the market. He had twenty pounds. He bought 2 kg. of tomatoes for 3 pounds a kilo , 1 kilogram of cucumber for 2 pounds and 3 kg. of oranges for 2 pounds a kilo. How many pounds did Mahmoud have when he left the market ?



……………………………………………………………………………………

……………………………………………………………………………………

(l)

Walaa bought a dress for 77 pounds and 3 books for 14 pounds each. If she had 140 pounds.

How much money does she have left ?



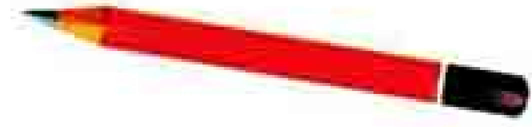
The price of the books = ………………… = ………… pounds.

The total of what Walaa paid = ………………… = ………… pounds.

The money remained with her = ………………… = ………… pounds.

Unit 1

ⓜ There are 9 tables of 5 bags on each one.
Each bag contains 6 pencils.
How many pencils are there ?
The number of all pencils = ...



Think And Answer

ⓐ If Amgad has L.E. 110 , can he buy 7 pens of L.E. 16 each ?

....

....

ⓑ Put the digits "5" and "3" in the empty squares so that the result becomes as great as possible.

☐ 2
× ☐
....



Unit 1 LESSON 5

Even numbers and odd numbers

Even numbers :

The numbers whose units digit is 0 , 2 , 4 , 6 or 8 are called even numbers.

For Example : 6 , 12 , 34 , 578 and 990 are even numbers.

Odd numbers :

The numbers whose units digit is 1 , 3 , 5 , 7 or 9 are called odd numbers.

For Example : 3 , 11 , 25 , 103 , 217 and 4 219 are odd numbers.

Remarks

(1) Each even number can be divided into pairs without remainder.

(2) An even number + 2 = an even number.

- For Example : 12 + 2 = 14

(3) An even number + 1 = an odd number.

- For Example : 20 + 1 = 21

(4) The sum of two even numbers is an even number.

- For Example : 26 + 32 = 58

  even + even = even



(5) The sum of two odd numbers is an even number.

- For Example : 13 + 15 = 28

  odd + odd = even

(6) The sum of an odd number and an even number is an odd number.

- For Example : 36 + 17 = 53

  even + odd = odd

Exercise 5

📖 *From the school book*

1 📖 **Underline the even numbers :**

4 069 , 17 352 , 74 , 2 003 , 3 002

2 📖 **Underline the odd numbers :**

174 , 5 103 , 1 035 , 2 406 , 46

3 **Write "even" or "odd" in front of each number :**

ⓐ 12 (even)	ⓑ 17 (odd)	ⓒ 60 ( )
ⓓ 51 ( )	ⓔ 0 ( )	ⓕ 99 ( )
ⓖ 67 ( )	ⓗ 144 ( )	ⓘ 215 ( )
ⓙ 243 ( )	ⓚ 438 ( )	ⓛ 666 ( )

4 **Circle the even numbers and underline the odd numbers :**

(14) , 19 , 50 , 73 , 8 , 55 , 216 , 222

303 , 527 , 850 , 913 , 4 125 , 15 286 , 76 854 , 11 111

5 **Complete each of the following :**



ⓐ The even number just after 6 is

ⓑ The odd number just before 14 is

ⓒ The even number that lies between 12 and 16 is

ⓓ The two even numbers that lie between 5 and 9 are and

ⓔ The two odd numbers that lie between 30 and 35 are and

ⓕ The two odd numbers less then 5 are and

ⓖ The two even numbers less than 4 are and

ⓗ 2 , and 10 are three even numbers , its sum = 20

6 Complete each of the following :



ⓐ The even number just before 22 is
ⓑ The even number just before 21 is
ⓒ The odd number just after 36 is
ⓓ The odd number just after 35 is
ⓔ 📖 The even number just after the number 306 is
ⓕ 📖 The odd number just before the number 2 751 is
ⓖ The even number greater than 14 and smaller than 18 is
ⓗ The odd number smaller than 27 and greater than 23 is

7 Write :

ⓐ The even numbers between 15 and 25
ⓑ The odd numbers between 56 and 66
ⓒ Two consecutive even numbers such that the smaller is 8
ⓓ Two consecutive odd numbers such that the smaller is 25
ⓔ Two consecutive even numbers such that the greater is 42
ⓕ Two consecutive odd numbers such that the greater is 101
ⓖ The greatest even 2-digit number is

8 Without adding , write "even" or "odd" in the blank :

ⓐ 12 + 24	(even)	ⓑ 14 + 15	(odd)
ⓒ 46 + 18	( )	ⓓ 11 + 53	( )
ⓔ 34 + 87	( )	ⓕ 17 + 88	( )
ⓖ 212 + 616	( )	ⓗ 313 + 515	( )
ⓘ 210 + 330	( )	ⓙ 511 + 720	( )

9 Complete each of the following :



ⓐ Any even number + 1 = ... number

ⓑ Any odd number + 1 = ... number

ⓒ Any odd number – 1 = ... number

ⓓ Any even number + 2 = ... number

ⓔ Any odd number + 2 = ... number

10 Put (✓) for the correct statement and (×) for the incorrect one :

ⓐ The sum of any two odd numbers is an odd number. ( )

ⓑ The sum of an odd number and an even number is an even number. ( )

ⓒ The sum of any two even numbers is an even number. ( )

ⓓ Each even number can be divided into pairs without remainder. ( )

ⓔ The product of any number by 2 is an even number. ( )

11 Choose the correct answer between brackets :

ⓐ Two consecutive odd numbers whose sum is 12 are
(6 and 7 or 4 and 8 or 5 and 7)

ⓑ Two consecutive even numbers whose sum is 22 are
(20 and 2 or 10 and 12 or 9 and 13)

ⓒ Two even numbers their sum is 60 are
(29 and 31 or 28 and 32 or 32 and 24)

ⓓ The product of two consecutive even numbers is 24, then these two numbers are (1 and 24 or 2 and 12 or 4 and 6)

12 Find :

ⓐ Two consecutive even numbers whose sum is 10 .... , ...

ⓑ Two consecutive odd numbers whose sum is 12 .... , ...

ⓒ Two consecutive even numbers whose product is 8 ,
ⓓ Two odd numbers their sum is 100 ,
ⓔ Two even numbers their sum is 100 ,

13 Find :

ⓐ The even numbers formed from the digits 3 , 4 , and 7

,

ⓑ The odd numbers formed from the digits 5 , 8 and 9

, , ,

ⓒ The greatest 3-digit even number formed from the digits 3 , 6 and 1
ⓓ The smallest 3-digit even number formed from the digits 2 , 4 and 5
ⓔ The greatest 3-digit odd number formed from the digits 4 , 5 and 6
ⓕ The smallest 3-digit odd number formed from the digits 5 , 7 and 8

Think And Answer

a Write three consecutive even numbers such that the product of the first and the third is 12

, and

b Which of the following numbers can be a sum of two consecutive numbers 11 , 32 , 53 , 24 and 65 ?

....



Unit 1 LESSON 6

Dividing a number by a 1-digit number

Noha distributed 693 pounds equally among her 3 sons.

What is the share of each son ?

To find the share of each son,

divide 693 ÷ 3 as the following :

You know that : 693 = 600 + 90 + 3

Since :
- 600 ÷ 3 = 200
- 90 ÷ 3 = 30
- 3 ÷ 3 = 1

Therefore : 693 ÷ 3 = 200 + 30 + 1 = 231

i.e. The share of each son = 231 pounds.

Another method

1st step :

Divide hundreds (6 ÷ 3 = 2)

$$\begin{array}{r} 2 \\ 3\overline{)693} \end{array}$$

2nd step :

Divide tens (9 ÷ 3 = 3)

$$\begin{array}{r} 23 \\ 3\overline{)693} \end{array}$$

3rd step :

Divide units (3 ÷ 3 = 1)

$$\begin{array}{r} 231 \\ 3\overline{)693} \end{array}$$

So , 693 ÷ 3 = 231

Remark

When the dividend is smaller than the divisor , write "0" in the quotient and continue the division operation.

For Example :

To divide 824 by 4 , do the following steps.

1st step :

8 ÷ 4 = 2

2
4 ⟌ 8 2 4

→

2nd step :

(2 ÷ 4) it can't because 2 is less than 4 , then we put 0

2 0
4 ⟌ 8 2 4

→

3rd step :

24 ÷ 4 = 6

2 0 6
4 ⟌ 8 2 4

So , 824 ÷ 4 = 206

Exercise 6

From the school book

1 Complete the following as in the example :



248 ÷ 2 =
200 ÷ 2 = 100
40 ÷ 2 = 20
8 ÷ 2 = 4
248 ÷ 2 = 124



(a)

369 ÷ 3 =
300 ÷ 3 =
60 ÷ 3 =
9 ÷ 3 =
369 ÷ 3 =

(b) 📖

284 ÷ 2 =
200 ÷ 2 =
80 ÷ 2 =
4 ÷ 2 =
284 ÷ 2 =

(c) 📖

848 ÷ 4 =
800 ÷ =
÷ =
÷ =
848 ÷ 4 =

2 Complete each of the following as in the example :



32 3)96	123 2)246	1 002 7)7 014

(a) 2)48	(b) 3)63	(c) 5)40
(d) 2)428	(e) 4)484	(f) 📖 2)624



(g) $3\overline{)936}$	(h) $5\overline{)500}$	(i) $6\overline{)186}$
(j) $5\overline{)525}$	(k) $4\overline{)248}$	(l) $7\overline{)4\ 270}$
(m) $4\overline{)8\ 400}$	(n) $2\overline{)2\ 084}$	(o) $4\overline{)1\ 608}$
(p) $6\overline{)3\ 660}$	(q) $6\overline{)2\ 406}$	(r) $7\overline{)1\ 407}$
(s) $9\overline{)9\ 009}$	(t) $2\overline{)12\ 012}$	(u) $8\overline{)16\ 400}$

3 Find the quotient of each of the following as in the example :



EXAMPLE :

- 842 ÷ 2 = 421
- 315 ÷ 3 = 105

(a) 624 ÷ 2 =
(b) 963 ÷ 3 =
(c) 666 ÷ 6 =
(d) 999 ÷ 9 =
(e) 4 224 ÷ 2 =
(f) 4 682 ÷ 2 =
(g) 460 ÷ 2 =
(h) 804 ÷ 4 =
(i) 800 ÷ 2 =
(j) 9 300 ÷ 3 =
(k) 5 500 ÷ 5 =
(l) 8 008 ÷ 8 =

ⓜ 8 044 ÷ 4 =

ⓝ 153 ÷ 3 =

ⓞ 368 ÷ 4 =

ⓟ 106 ÷ 2 =

ⓠ 4 200 ÷ 6 =

ⓡ 721 ÷ 7 =

ⓢ 545 ÷ 5 =

ⓣ 1 664 ÷ 8 =

ⓤ 1 612 ÷ 4 =

ⓥ 7 070 ÷ 7 =

ⓦ 10 010 ÷ 2 =

ⓧ 2 016 ÷ 4 =

4 Underline the correct answer :

ⓐ 404 ÷ 4 = (11 **or** 102 **or** 101)

ⓑ 8 tens ÷ 4 = (10 **or** 20 **or** 30 **or** 40)

ⓒ 1 503 ÷ 3 = (51 **or** 501 **or** 5 001 **or** 1 501)

ⓓ 12 006 ÷ 3 = (42 **or** 402 **or** 4 002 **or** 4 003)

ⓔ 8 080 ÷ 8 = (11 **or** 101 **or** 1 010 **or** 2 020)

ⓕ 735 ÷ 7 = (15 **or** 105 **or** 1 005 **or** 1 050)

ⓖ 2 424 ÷ 6 = (404 **or** 440 **or** 4 004 **or** 4 040)

ⓗ The quotient of 505 by 5 is

(11 **or** 10 **or** 101 **or** 51)

ⓘ The quotient of 246 by 2 is

(321 **or** 123 **or** 223 **or** 124)

5 Join the equal results :

80 ÷ 4	5 ⟌505
707 ÷ 7	4 ⟌4 040
8 080 ÷ 8	6 ⟌120
126 ÷ 3	9 ⟌936
624 ÷ 6	4 ⟌168

6 Put the suitable relation (< , = or >) in the blanks as in the example :



EXAMPLE :

- 505 ÷ 5 (101) [>] 11
- 246 ÷ 2 (123) [<] 963 ÷ 3 (321)
- 612 ÷ 6 (102) [=] 102

ⓐ 488 ÷ 4 122

ⓑ 2 604 ÷ 2 ...... 3 906 ÷ 3

ⓒ 250 × 6 ...... 5 000 ÷ 5

ⓓ 366 ÷ 6 ...... 366 × 6

ⓔ 8 000 ÷ 4 ...... 200 × 10

ⓕ (15 ÷ 3) + 16 ...... 3 × 7

7 Complete the following tables :

ⓐ ÷ 4 , × 4

88	....	408	....	844	....
....	31	....	61	....	222

ⓑ ÷ 5 , × 5

....	250	....	505	....	5 505
41	....	51	....	111	....

8 **Complete the missing numbers as in the example :**



- 804 ÷ 4 = 201
- 864 ÷ 2 = 432



ⓐ .... ÷ 2 = 32	ⓑ .... ÷ 3 = 203
ⓒ .... ÷ 8 = 111	ⓓ .... ÷ 3 = 101
ⓔ .... ÷ 5 = 21	ⓕ .... ÷ 3 = 333
ⓖ .... ÷ 6 = 210	ⓗ .... ÷ 3 = 132
ⓘ .... ÷ 8 = 31	ⓙ 88 ÷ .... = 22
ⓚ 606 ÷ .... = 101	ⓛ 309 ÷ .... = 103
ⓜ 7 077 ÷ .... = 1 011	ⓝ 842 ÷ .... = 421
ⓞ 936 ÷ .... = 312	ⓟ 5 005 ÷ .... = 1 001

9 **Complete as in the the example :**



426 →(÷ 6)→ 71 →(× 5)→ 355 →(+ 45)→ 400 →(÷ 4)→ 100

ⓐ 404 →(÷ ....)→ 101 →(× ....)→ 808 →(÷ 2)→ .... →(× ....)→ 1 212

ⓑ 100 →(× ....)→ 800 →(+ 8)→ .... →(÷ ....)→ 202 →(× ....)→ 606

ⓒ 189 →(÷ 3)→ .... →(× 2)→ 126 →(÷ 6)→ .... →(× ....)→ 0

10 **Read and answer following the example :**



EXAMPLE :

How many twos are there in 204 ?

There are : 204 ÷ 2 = 102

ⓐ How many threes are there in 3 009 ?

There are : ....

ⓑ How many fives are there in 5 050 ?

There are : ....

ⓒ How many sevens are there in 2 107 ?

There are : ....

ⓓ How many nines are there in 72 027 ?

There are : ....

Word Problems



EXAMPLE :

A school paid L.E. 105 to buy some scientific books.
If the price of each book is L.E. 5
Find the number of books.



The number of books = 105 ÷ 5 = 21 books.

ⓐ

A merchant wanted to put 626 pieces of candy in two packets so that each packet would contain the same number of pieces.
What is the number of pieces in each packet ?



Complete :

626 ÷ 2 = ...

The number of pieces in each packet = ...

Unit 1

(b)



Maged has L.E. 240, he wants to buy some pens.
If each pen costs L.E. 8, how many pens can he buy ?
The number of pens = ……… ÷ ……… = ……… pens.

(c)



📖 A primary school has 9 classes with equal numbers in each , if the whole number of pupils is 450 pupils.
How many pupils are there in each class ?
The number of pupils in each class = ……… ÷ ………
= ……… pupils.

(d)



📖 Samia and Mariam's father distributed among them 226 pounds equally. What is the share of each one ?
The share of each one = ………………… = ……… pounds.

(e)



160 tourists are distributed equally on 4 buses.
How many tourists are there in each bus ?
The number of tourists in each bus
= ……………………………… = ……… tourists.

(f)



There are 749 fruit trees planted in 7 rows.
How many fruit trees are there in each row ?
The number of fruit trees = ………………… = ……… trees.

(g)
In one of the libraries 804 books are to be distributed among four shelves equally.
How many books should be put on each shelf ?



The number of books on each shelf
= .... = ... books.

(h)
Sally has 63 apples and Sylvia has 57 apples. They want to put all the apples together in baskets of 4 apples each.
How many baskets are needed ?



The number of apples = ... = ...
The number of baskets = ... = ...

(i)
Basma bought one ruler and three pencils for P.T. 375
If the price of the ruler is P.T. 60 , find the price of one pencil.



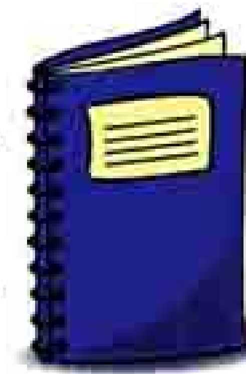
The price of all pencils = ... = ...
The price of one pencil = ... = ...

(j)
Bassem bought a car for L.E. 39 410 He paid L.E. 29 355 in cash and the rest of the price would be in 5 equal instalments. Find the value of each instalment.



The rest of the price = ... = ...
The value of each instalment = ... = ...

(k)
Eman had L.E. 10 She bought 3 notebooks and she had P.T. 70 left. What is the price of each notebook ?



The price of all notebooks = ...
= P.T ....
The price of one notebook = ...
= P.T ....

Unit 1

(l)

📖 An equal number of children are vaccinated against polio in one Ministry of Health Clinics. If 328 children are vaccinated in 8 days, then how many children were vaccinated in 5 days ?



Number of children vaccinated in one day = ... = ... children.

Number of children vaccinated in 5 days = ... = ... children.

(m)

A farmer needs 9 workers to work in his farm. He pays them L.E. 369 every day. How much money does one worker take in 7 days ?



In one day , a worker takes = ...

In 7 days , a worker takes = ...

Think And Answer

a Complete using (< , = or >) :

(1) 215 × 4   215 ÷ 5

(2) 812 ÷ 7   182 ÷ 7

(3) 1 392 ÷ 6   1 392 ÷ 4

b A merchant wants to put 48 litres of oil in different bottles such that he divides half of this amount into bottles of 2 litres each and the second half into bottles of 3 litres each. How many bottles does he need from each kind of bottles at least ?



Half the amount = ...

The number of bottles of 2 litres = ...

The number of bottles of 3 litres = ...



General exercise on unit one from the school book

1 Write the following numbers in digits :

(1) Forty five tens = ...
(2) Ten = ...
(3) Seventy = ...
(4) Five hundreds and sixty tens = ...
(5) Sixty four tens = ...
(6) Fifteen tens = ...
(7) Ninety eight tens = ...
(8) Nine tens = ...
(9) Thirty one tens = ...
(10) Two tens = ...
(11) Three hundreds tens = ...
(12) Twenty three hundreds = ...
(13) Two hundreds = ...
(14) Nine hundreds = ...

2 Find the result :

(1) 7 × 10 = ...
(2) 8 × 100 = ...
(3) 9 × 1 000 = ...
(4) 10 × 10 = ...
(5) 7 × 2 × 5 = ...
(6) 2 × 4 × 100 = ...
(7) 3 × 6 × 10 = ...
(8) 4 × 3 × 100 = ...
(9) 45 × 1 000 = ...
(10) 20 × 60 = ...
(11) 40 × 50 = ...
(12) 300 × 40 = ...

3 Find the result of each of the following :

(1) 24 × 5 = ...
(2) 16 × 3 = ...
(3) 47 × 4 = ...
(4) 48 × 6 = ...
(5) 217 × 3 = ...
(6) 504 × 5 = ...

⑦ 7 2 1 × 4 = ...

⑧ 4 1 5 × 2 = ...

⑨ 1 2 1 5 × 4 = ...

⑩ 6 1 0 0 × 6 = ...

⑪ 4 0 1 7 × 7 = ...

⑫ 8 2 3 1 × 8 = ...

4 Find the result :

① 639 ÷ 3 = ...
② 460 ÷ 2 = ...
③ 250 ÷ 5 = ...
④ 550 ÷ 5 = ...
⑤ 164 ÷ 4 = ...
⑥ 488 ÷ 8 = ...
⑦ 660 ÷ 6 = ...
⑧ 497 ÷ 7 = ...
⑨ 360 ÷ 9 = ...

5 Find the result :

① 2 ⟌ 408
② 5 ⟌ 5 010
③ 4 ⟌ 488
④ 7 ⟌ 4 207
⑤ 3 ⟌ 183
⑥ 3 ⟌ 366

6 Complete :

① .... × 100 = 900
② 10 × .... = 90
③ 100 × .... = 1 000
④ 10 × .... = 160
⑤ 100 × 4 × .... = 2 400
⑥ 1 000 × .... = 126 000
⑦ 45 × .... = 45 000
⑧ 40 × .... = 4 000
⑨ 3 × 300 = ... × 100 = ...
⑩ 10 × 6 × .... = 6 × 1 000
⑪ 20 × 30 = 10 × ....
⑫ 40 × 50 = 20 × ....

7 Put the suitable sign (> , < or =) :

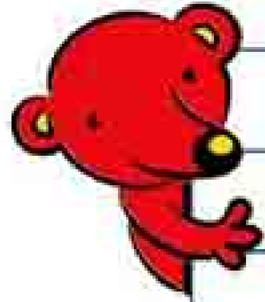


(1) 515 × 5	515 ÷ 5
(2) 369 ÷ 3	100 × 3
(3) 3 × 4 × 1 000	12 × 1 000
(4) 20 × 70	14 × 100
(5) 62 ÷ 2	155 ÷ 5
(6) 3 752 ÷ 7	3 752 × 7

8 Choose the correct answer from those between brackets :

(1) 400 × 2	900 × 10	(> or < or =)
(2) 3 × 4 × 10	15 × 10	(> or < or =)
(3) 30 × 5 × 2	300	(> or < or =)
(4) 25 × 4 × 20	6000	(> or < or =)
(5) 700	2 × 35 × 5	(> or < or =)
(6) 3 900	thirty nine tens	(> or < or =)
(7) Two tens + 5 tens	80	(> or < or =)
(8) 7 × 20 × 50	6 000	(> or < or =)
(9) Eight thousands	7 500 + 500	(> or < or =)
(10) 2 000 + 200	4 000	(> or < or =)
(11) 4 500	Forty five tens	(> or < or =)
(12) 800 + 200	two thousands	(> or < or =)

Unit 1



9 **In a shop for saling electric sets, the price of electric sets was shown on it. Complete the following :**

The set	The number	The price of the unit	Total price
Fridge	20	2 000	
Fan	25	200	
Hot air set	30	300	
Heater	15	200	
Blender	10	100	
The sum			

10 **Choose the correct answer from those between brackets :**

1. Which of the following operations doesn't represent an even number ?
   (3 hundreds + hundred **or** 30 × 2 × 4 **or** 45 ÷ 5)
2. If 135 × 4 = 630 , then 630 ÷ 4 = ... (120 **or** 125 **or** 135)
3. The number which multiplied by 3 129, the result will be 3 129 is ....
   (0 **or** 1 **or** 10)
4. The number of the even numbers included between 10 and 20 is ....
   (2 **or** 4 **or** 6)

11 **From the following numbers, complete :**

5 775 , 4 884 , 123 , 5 770 , 1 221

1. The odd numbers are ....
2. The even numbers are ....



12 Choose the correct answer from those between brackets :

1. 804 ÷ 4 = ... (21 *or* 201 *or* 402)
2. 36 ÷ 6 .... 36 ÷ 4 (> *or* < *or* =)
3. 3 003 .... 1 001 × 3 (> *or* < *or* =)
4. 25 ÷ 5 .... 25 ÷ 25 (> *or* < *or* =)
5. 8 109 ÷ 9 .... 91 (> *or* < *or* =)
6. 108 ÷ 2 .... 7 (> *or* < *or* =)
7. 2 061 ÷ 9 .... 2 061 × 9 (> *or* < *or* =)
8. 8 080 ÷ 8 = ... (1 010 *or* 110 *or* 101)
9. 460 × 10 = ... (460 *or* 4 600 *or* 406)
10. 9 300 ÷ 3 = ... (100 *or* 3 100 *or* 310)
11. 777 ÷ 7 = ... (11 *or* 111 *or* 101)

13 Complete each of the following :

1. 4 × .... × 100 = 12 × .... = ...
2. 6 × 3 × 100 = ...
3. 5 tens + one ten = ...
4. .... × .... × 1 000 = 3 000
5. Seven tens = ...
6. 2 × 5 × 28 = 28 × .... = ...
7. 30 × 300 = ...
8. 66 × 1 000 = ... thousands.
9. 10 × 1 000 = ... and it is read ....
10. 4 × 250 = ... × 500
11. 5 350 metres = ... kilometres + 350 metres.



(12) 4 × 6 × 10 = ... × 10
(13) 4 metres = ... cm.
(14) 200 + 300 + 500 = ...
(15) 9 × .... = 900
(16) 8 000 = 2 000 × ....
(17) 3 × 5 = ...
(18) 2 000 = ... × 2 000
(19) Thirty tens = ...
(20) 650 + ... = 750
(21) 7 × 200 = 7 × .... × ....
(22) 3 000 = 500 + ...
(23) Twenty four hundreds = ...

14 Complete in the same pattern :

(1) 2 , 20 , 200 , ... , ...

(2) 215 , 430 , 860 , ... , ...

15 If the price of one kg. of orange is 3 pounds.
How much is the price of ten kg. ?
The price of the orange = ... × .... = ... pounds.

16 Karol takes 5 pounds from her father every day.
Calculate what Karol takes in a week.
What Karol takes in a week = ... × .... = ... pounds.

17 There are two fish's aquariums, the price of each is 250 pounds.
What is the price of two aquariums ?
The price of two aquariums = ... × .... = ... pounds.

18 If the price of one golden gram is 562 pounds, what is the price of 4 grams of this golden ?
The price of 4 grams = ... = ... pounds.

19 Mohamed has 20 banknotes, one hundreds pounds each and 7 banknotes, 10 pounds each. What Mohamed has ?
Mohamed has = ... = ... pounds.

20 Osama bought three boxes of colour, the price of each is ten pounds. Calculate what Osama paid.

Osama paid = ... × .... = ... pounds.

21 Bakar bought 164 notebooks, he distributed them equally among his 4 brothers. How many notebooks did each brother take ?

The share of each brother = ... = ... notebooks.

22 In your school, there are 150 pupils in the third primary, they were distributed equally among 3 classes. How many pupils are there in each class ?

Number of pupils = ... ÷ .... = ... pupils.

Unit 1

Activities from the School book

1 If you know that : $7 \times 5 = 35$, $7 \times 6 = 42$, $7 \times 8 = 56$
Use these equalities to complete :

ⓐ $7 \times 11 =$ .... + ... = ...

ⓑ $7 \times 14 =$ .... + ... = ...

ⓒ $7 \times 13 =$ .... + ... = ...

ⓓ $7 \times 19 =$ .... + ... + ... = ...

2 If you know that : $49 \times 7 = 343$, $49 \times 30 = 1\ 470$, complete :

ⓐ $49 \times 70 =$ ....

ⓑ $49 \times 3 =$ ....

ⓒ $49 \times 77 =$ .... + ... = ...

ⓓ $49 \times 33 =$ .... + ... = ...

ⓔ $49 \times 37 =$ .... + ... = ...

ⓕ $49 \times 73 =$ .... + ... = ...

3 Check that the following equalities are correct (you can use a calculator) :

ⓐ $32 = 2 + 3 + (3 \times 9)$

ⓑ $75 = 5 + 7 + (7 \times 9)$

ⓒ $63 = 3 + 6 + (6 \times 9)$

ⓓ $80 = 0 + 8 + (8 \times 9)$

Try other numbers of your own , then search for the reason why this pattern is always correct.
Complete the following equalities (in the same way) :

ⓐ $47 = 7 + 4 + (4 \times$ ....)

ⓑ $68 = 8 +$ .... $+ (6 \times$ ....)

ⓒ 96 = ...

ⓓ 84 = ...

ⓔ 59 = ...

4 **Show whether the answers of the following problems are reasonable or unreasonable and give a reason :**

ⓐ 598 × 7 = 3 986 [ ]

Because : ....

ⓑ 1 779 ÷ 6 = 596 [ ]

Because : ....

ⓒ 2 594 ÷ 4 = 6 378 [ ]

Because : ....

ⓓ 285 × 9 = 2 565 [ ]

Because : ....





UNIT 2

Geometry



- **Lesson 1 :** The perimeter.
- **Lesson 2 :** The area.

- A general exercise from the school book.
- Activities from the school book.



Unit 2 LESSON 1

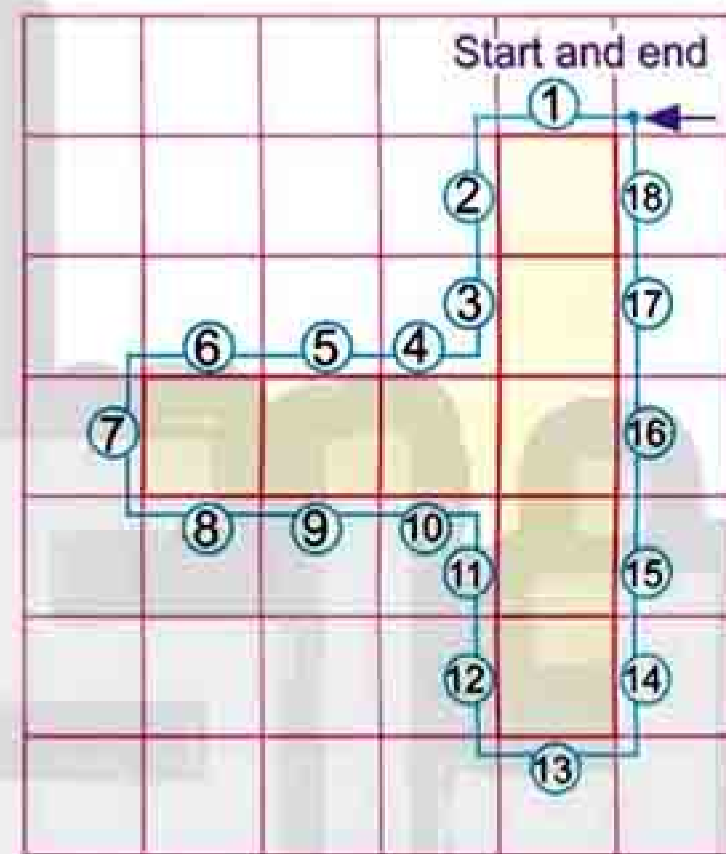
The perimeter

You know that :

- The perimeter of any shape is the length of the line that outlines that shape.

For Example :

The perimeter of the opposite figure equals 18 units.

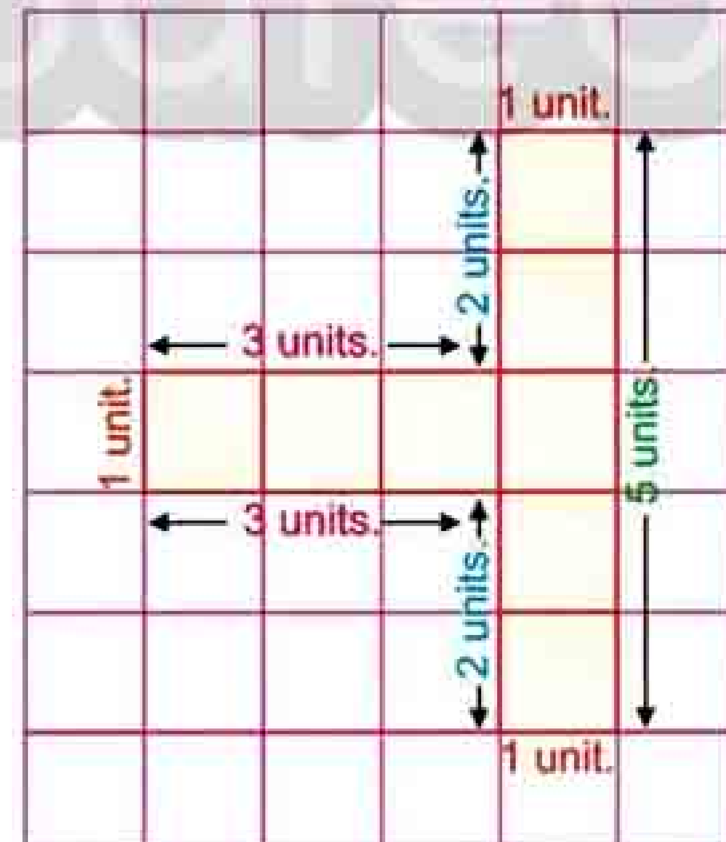


- The perimeter of any polygon equals the sum of the lengths of its sides.

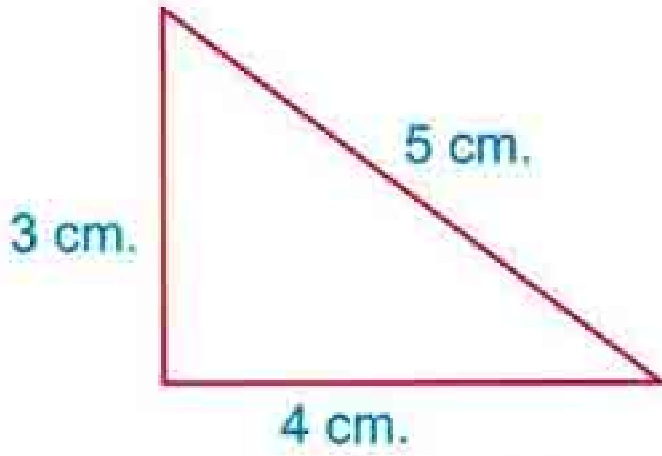
For Example :

The perimeter of the opposite figure equals

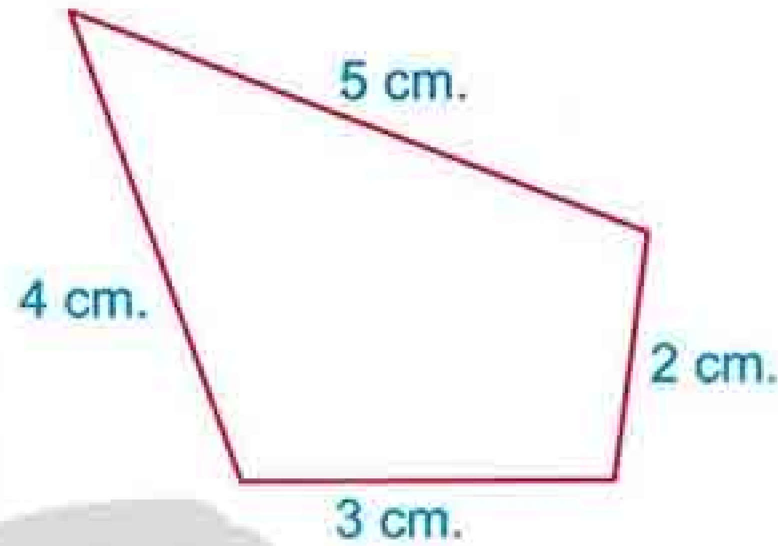
5 + 1 + 2 + 3 + 1 + 3 + 2 + 1 = 18 units.



Example :



The perimeter of the triangle
= 3 + 4 + 5 = 12 cm.



The perimeter of the polygon
= 3 + 2 + 4 + 5 = 14 cm.

Finding the perimeter of a polygon using a ruler

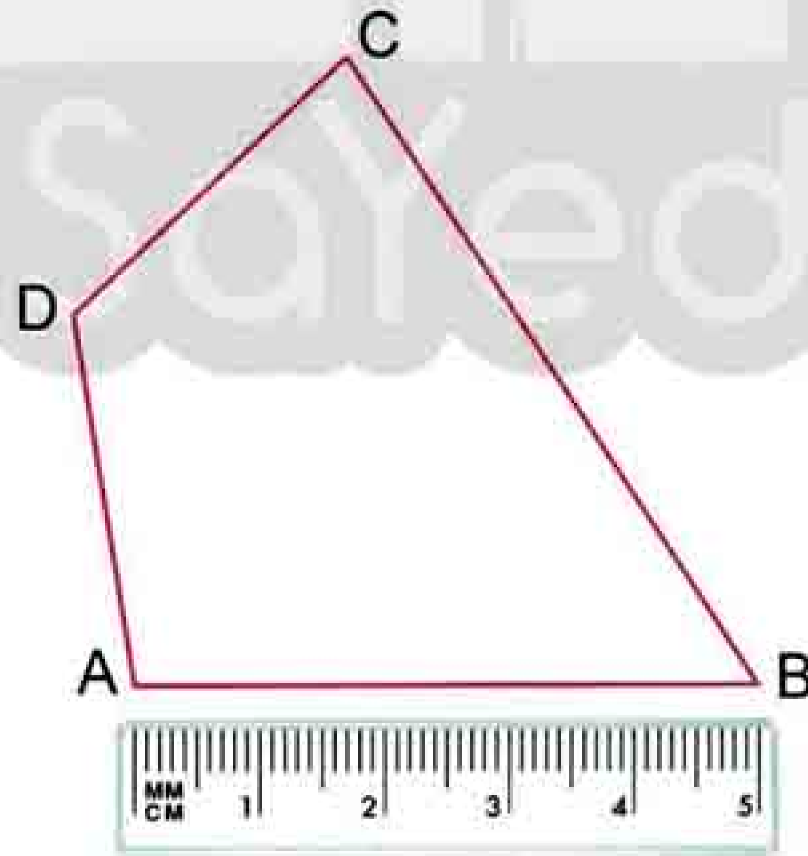
Use a ruler to measure the length of every side of the polygon , then find the sum of these lengths to get the perimeter of this polygon.

Example :

If you use your ruler to measure the length of every side of the opposite polygon, you will find that :

AB = 5 cm. BC = 6 cm.

CD = 3 cm. DA = 3 cm.



So ,

the perimeter of the polygon ABCD equals

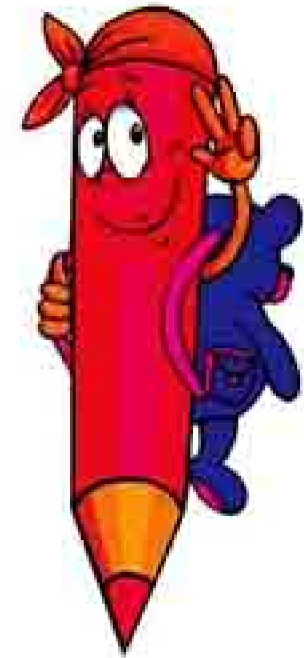
5 + 6 + 3 + 3 = 17 cm.

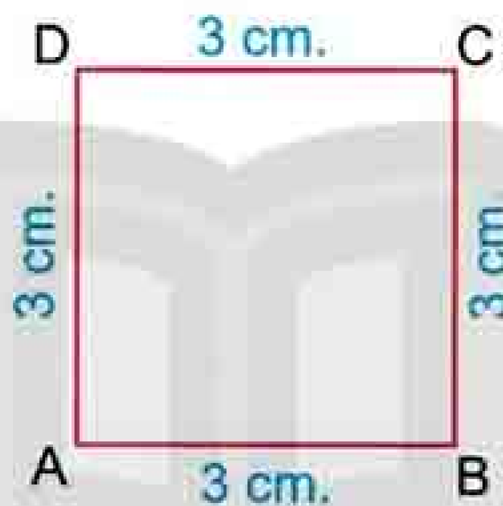
LESSON 1

The perimeter of the square and the rectangle

First The perimeter of the square

The square has 4 sides that are equal in length.





So , the perimeter of the square ABCD = AB + BC + CD + DA

= 3 + 3 + 3 + 3 = 12 cm.

Remember that : **3 + 3 + 3 + 3 = 3 × 4**

So , you can write that :

The perimeter of the square ABCD = 3 × 4 = 12 cm.

Generally

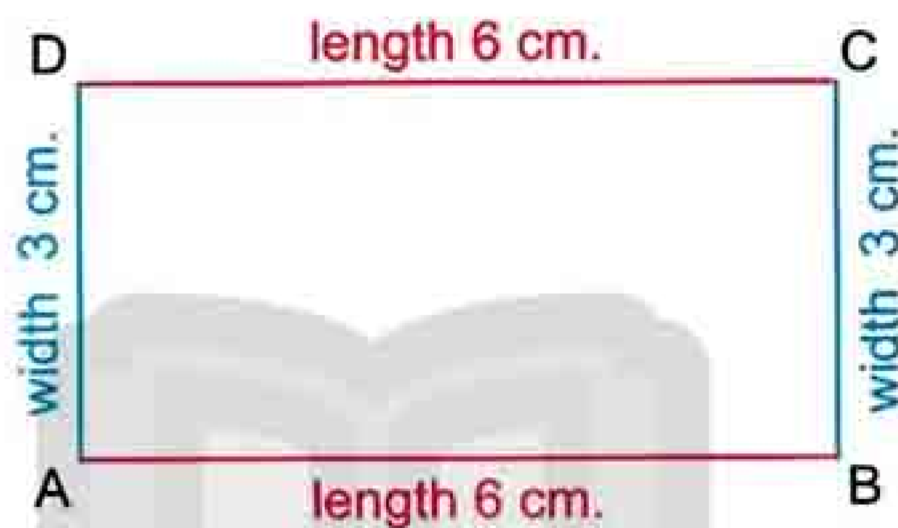
The perimeter of any square = its side length × 4





Second The perimeter of the rectangle

The rectangle has 4 sides.
Every two opposite sides are equal in length.





So , the perimeter of the rectangle ABCD = AB + BC + CD + DA

= 6 + 3 + 6 + 3 = 18 cm.

Notice that : **(6 + 3) + (6 + 3) = (6 + 3) × 2**

So , you can write that :

The perimeter of the rectangle ABCD = (6 + 3) × 2 = 18 cm.

Generally

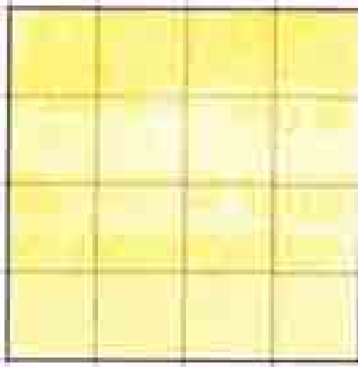
The perimeter of any rectangle = (length + width) × 2

Exercise 7

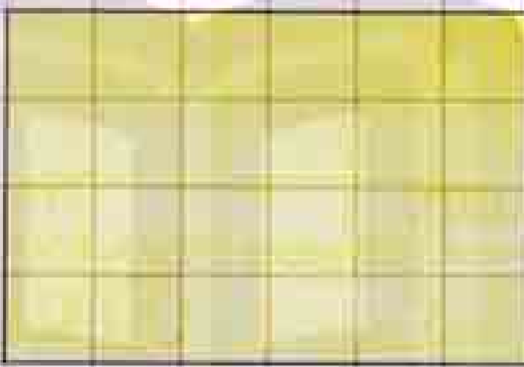
From the school book

First Problems on the perimeter

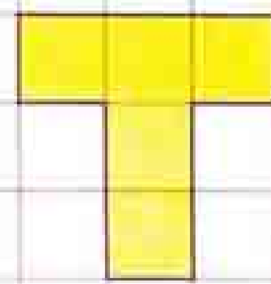
1 Calculate the perimeter of each of the figures below (taking the length of the side of the smallest square as a unit) :

(a) 

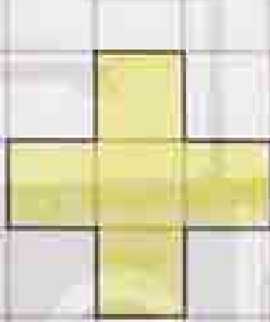
The perimeter = ... units.

(b) 

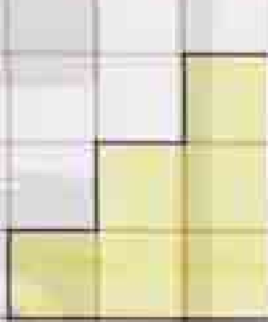
The perimeter = ... units.

(c) 

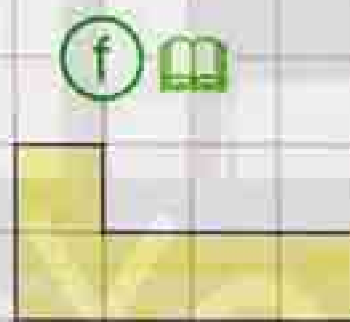
The perimeter = ... units.

(d) 

The perimeter = ... units.

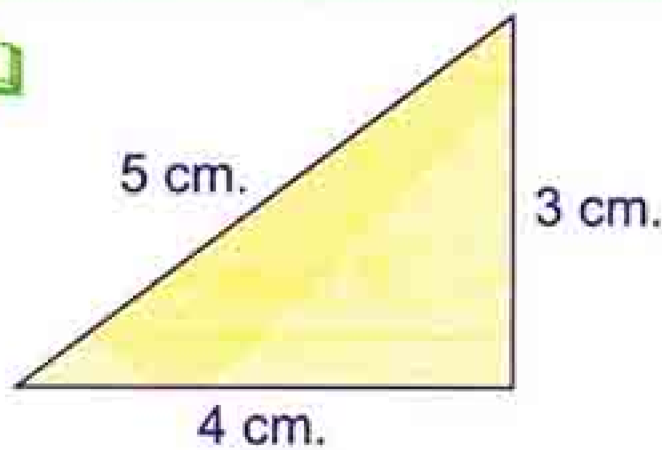
(e) 

The perimeter = ... units.

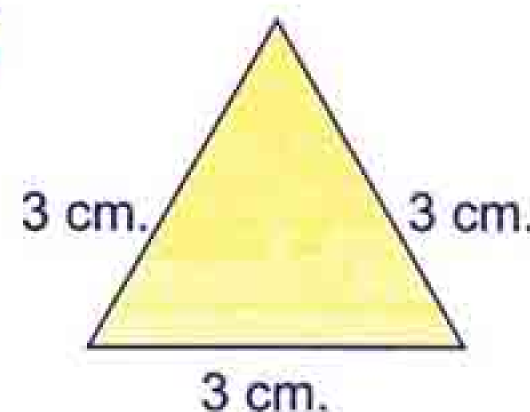
(f) 

The perimeter = ... units.

2 Find the perimeter of each of the figures below :

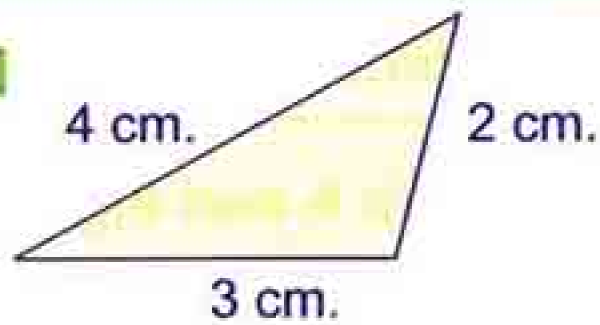
(a) 

The perimeter = ... cm.

(b) 

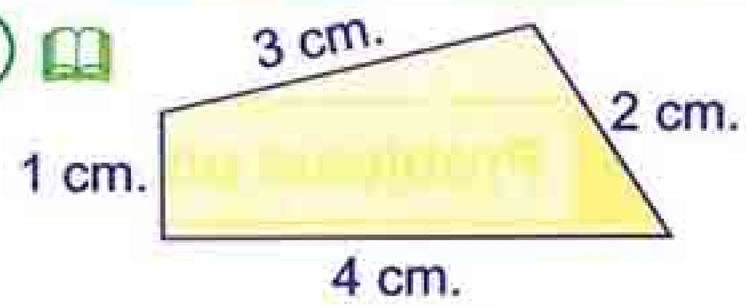
The perimeter = ... cm.

(c)



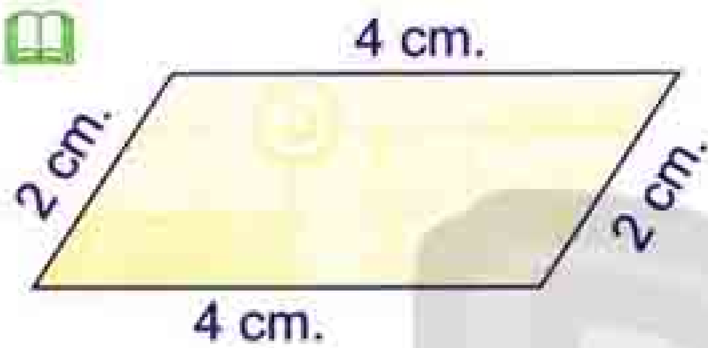
The perimeter = ... cm.

(d)



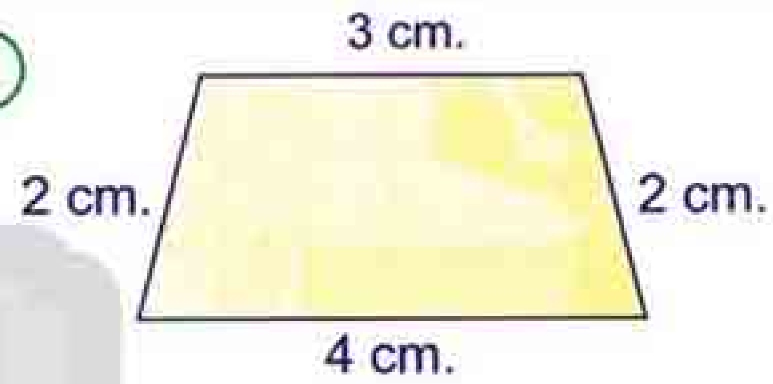
The perimeter = ... cm.

(e)



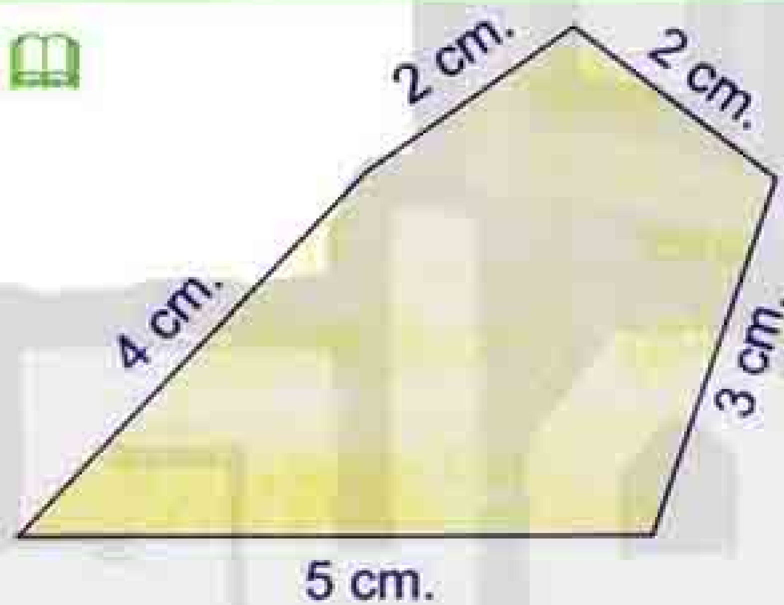
The perimeter = ... cm.

(f)



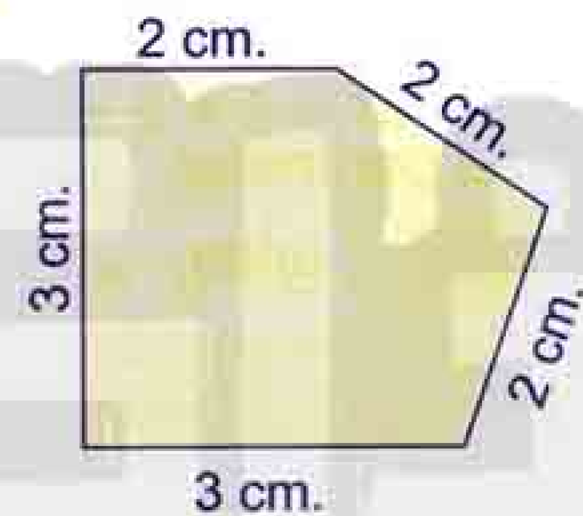
The perimeter = ... cm.

(g)



The perimeter = ... cm.

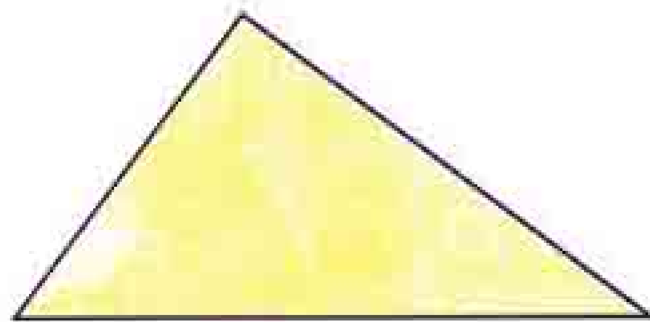
(h)



The perimeter = ... cm.

3 Use your ruler to measure the side lengths of each of the following figures, then calculate the perimeter of each figure :

(a)



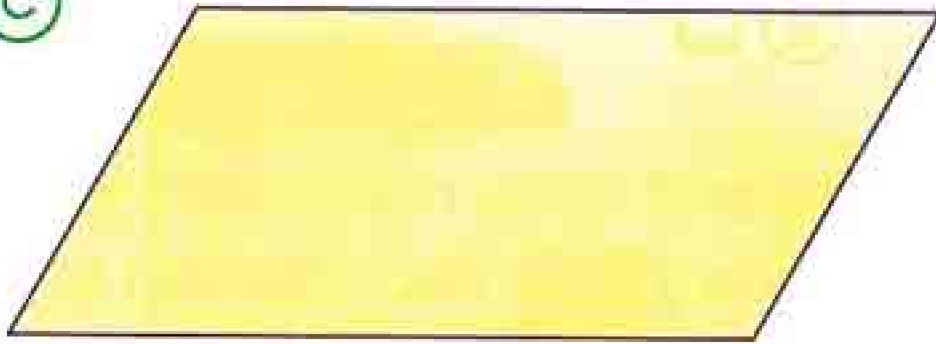
The perimeter =
...... + ... + ... = ... cm.

(b)



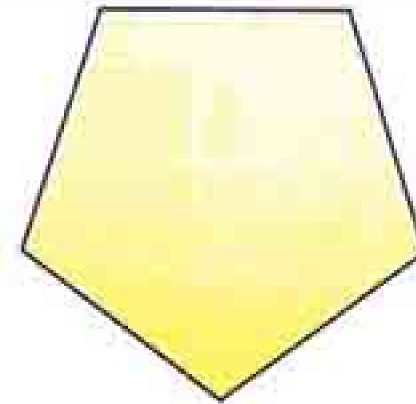
The perimeter =
...... + ... + ... + ... = ... cm.

ⓒ



The perimeter =
...... + ... + ... + ... = ... cm.

ⓓ

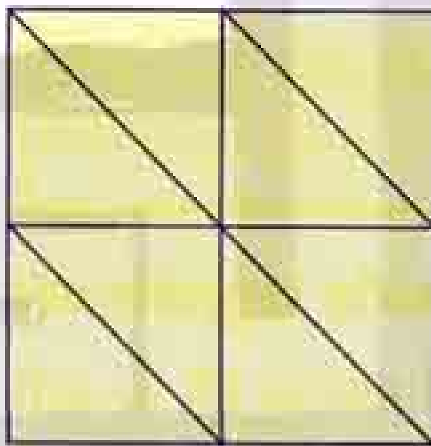


The perimeter =
...... + ... + ...
+ ...... + ... = ... cm.

4 Complete :

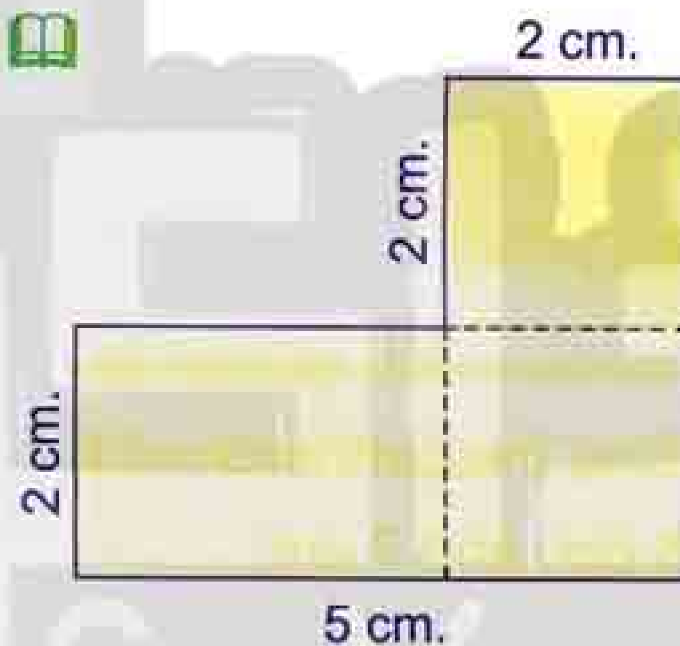
ⓐ The perimeter of any polygon equals .... its side lengths.

ⓑ



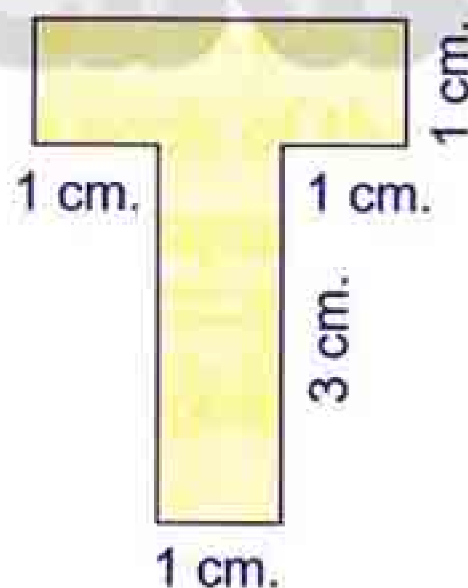
The perimeter = ... units.

ⓒ



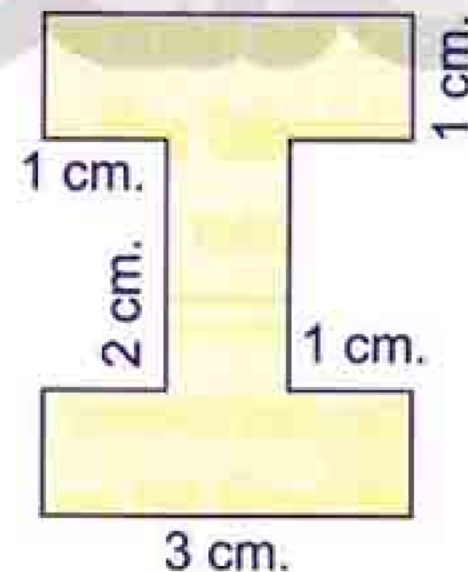
The perimeter = ... cm.

ⓓ



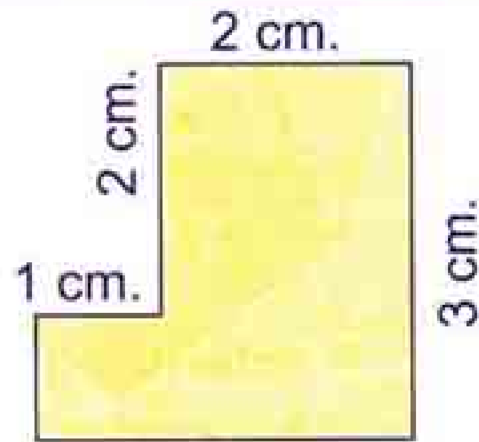
The perimeter = ... cm.

ⓔ



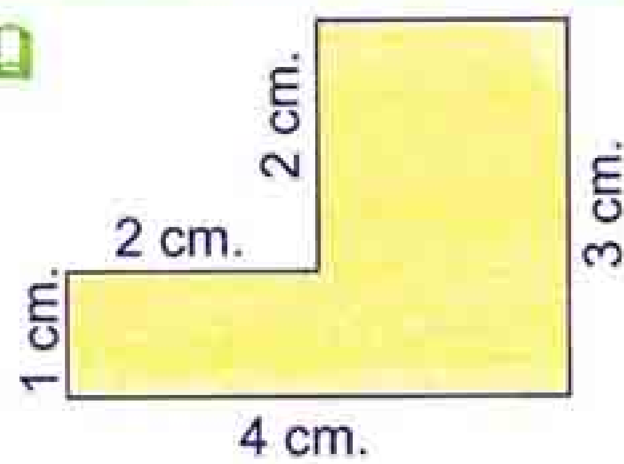
The perimeter = ... cm.

(f)



The perimeter = ……… cm.

(g)



The perimeter = ……… cm.

5 **Find the perimeter as in the following example :**



EXAMPLE :

Find the perimeter of the triangle whose side lengths are 3 cm. , 5 cm. and 6 cm.

The perimeter = 3 + 5 + 6 = 14 cm.

(a) Find the perimeter of the triangle whose side lengths are 5 cm. , 5 cm. and 7 cm.

The perimeter = ……………… + ……………… + ……………… = ……………… cm.

(b) Find the perimeter of the triangle whose side lengths are 4 cm. , 5 cm. and 8 cm.

The perimeter = ……………… + ……………… + ……………… = ……………… cm.

(c) Find the perimeter of the triangle whose side lengths are 40 cm. , 50 cm. and 60 cm.

The perimeter = ……………………………………………… = ………………

6 Find the length of the third side as in the following example :



EXAMPLE :

Find the length of the third side of the triangle in which the lengths of two sides are 12 cm. and 13 cm. , and its perimeter is 30 cm.

- The sum of the lengths of two sides = 12 + 13 = 25 cm.
- The length of the third side = 30 – 25 = 5 cm.

(a) Find the length of the third side of the triangle in which the lengths of two sides are 6 cm. and 5 cm. , and the perimeter is 21 cm.

- The sum of the lengths of two sides = ... = ... cm.
- The length of the third side = ... = ... cm.

(b) The perimeter of a triangle is 120 cm. If the sum of two of its side lengths is 70 cm. Find the length of the third side.

The length of the third side = ... = ... cm.

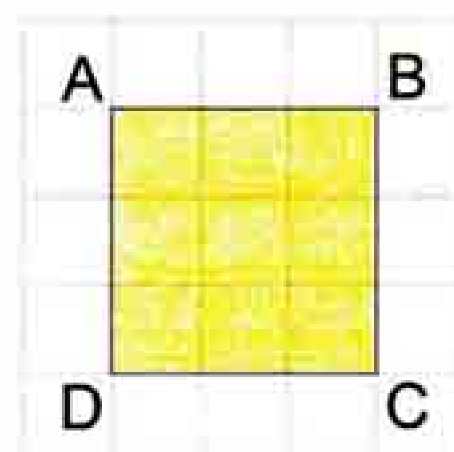
(c) The perimeter of a triangular piece of land is 200 metres. Find the length of its third side if you know that the sum of two lengths of its sides is 140 metres.

The length of the third side = ... = ... metres.

Second — Problems on perimeter of square and rectangle

7 Complete each of the following (consider the length of the side of the small square is a unit of length) :

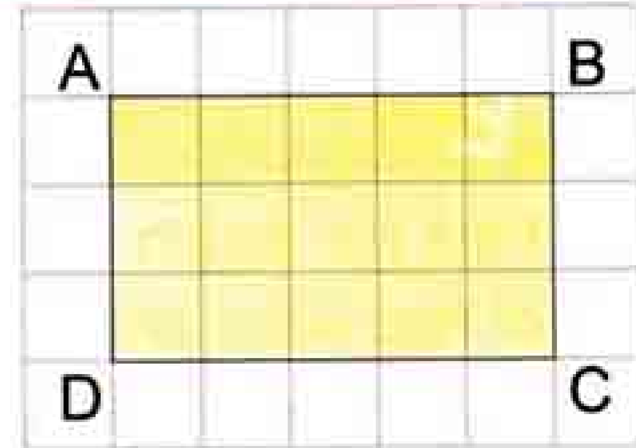
(a) In the square ABCD :



- AB = 3 units
- BC = ... units
- CD = ... units
- DA = ... units

- The perimeter of the square = ... + ... + ... + ...
= .... × 4 = ... units

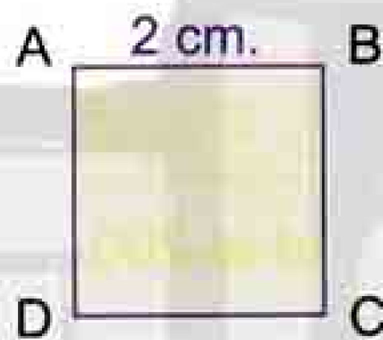
ⓑ In the rectangle ABCD :



- AB = 5 units
- BC = 3 units
- CD = ... units
- DA = ... units
- The perimeter of the rectangle = ... + ... + ... + ...
  = (5 + 3) × 2 = ... × 2 = ... units

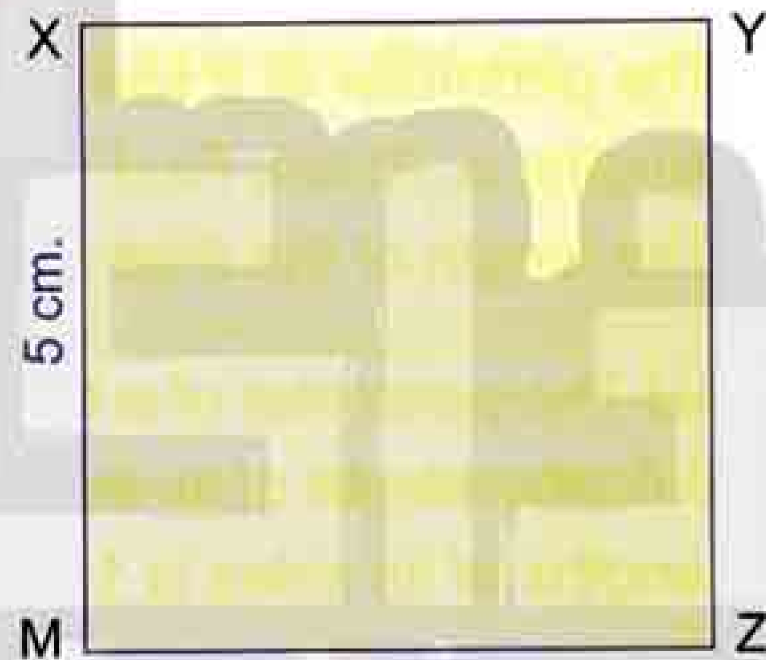
8 Complete each of the following :

ⓐ ABCD is a square.



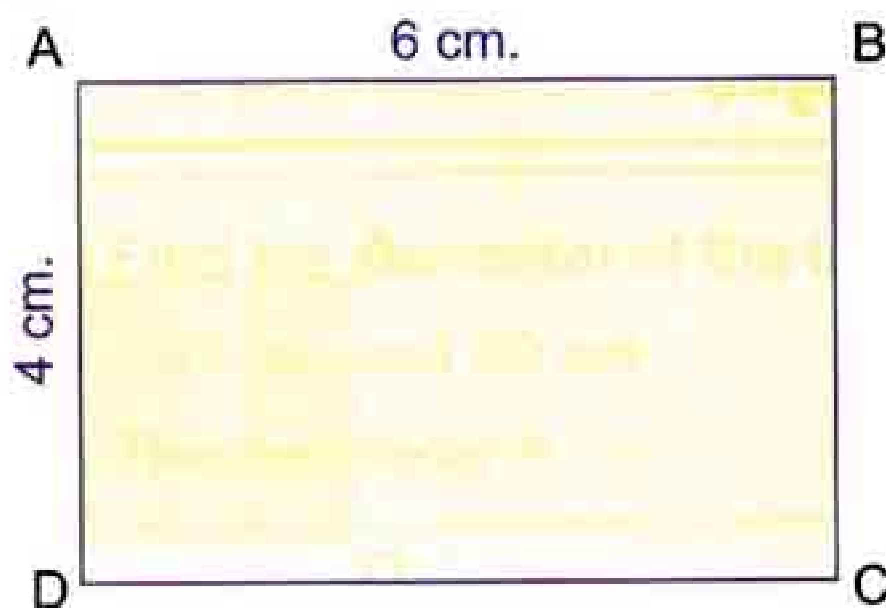
- The perimeter of the square
  = ... × 4 = ... cm.

ⓑ XYZM is a square.



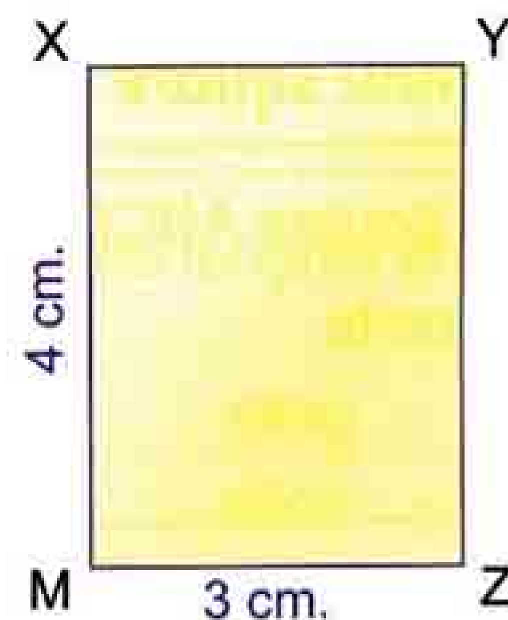
- The perimeter of the square
  = ... × 4 = ... cm.

ⓒ ABCD is a rectangle.



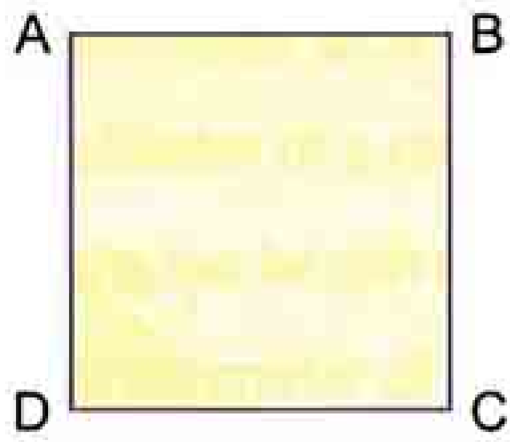
- The perimeter of the rectangle
  = (...... + ...) × 2 = ... × 2 = ... cm.

ⓓ XYZM is a rectangle.



- The perimeter of the rectangle
  = (...... + ...) × 2 = ... × 2 = ... cm.

ⓔ ABCD is a square.

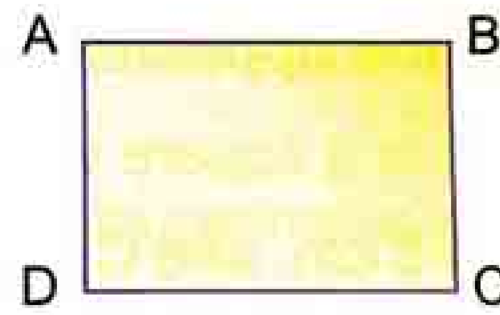


• AB = ... cm.

• The perimeter

= .... = ... cm.

ⓕ ABCD is a rectangle.



• AB = ... cm.

• BC = ... cm.

• The perimeter

= .... = ... cm.

9 Complete as in the example :

	The length in cm.	The width in cm.	The perimeter = (length + width) × 2
Ex	5 cm.	3 cm.	(5 + 3) × 2 = 16 cm.
ⓐ	6	4	....
ⓑ	7	3	....
ⓒ	10	5	....

10 Complete as in the example :

	Side length in cm.	The perimeter of square = side length × 4
Ex	5	5 × 4 = 20 cm.
ⓐ	7	....
ⓑ	4	....
ⓒ	10	....

11 Answer the following with the help of the figure :

ⓐ In the opposite figure :

BCDE is a square where AB = 3 cm.

, AE = 5 cm. and CD = 4 cm.

Calculate :

(1) The perimeter of the square BCDE

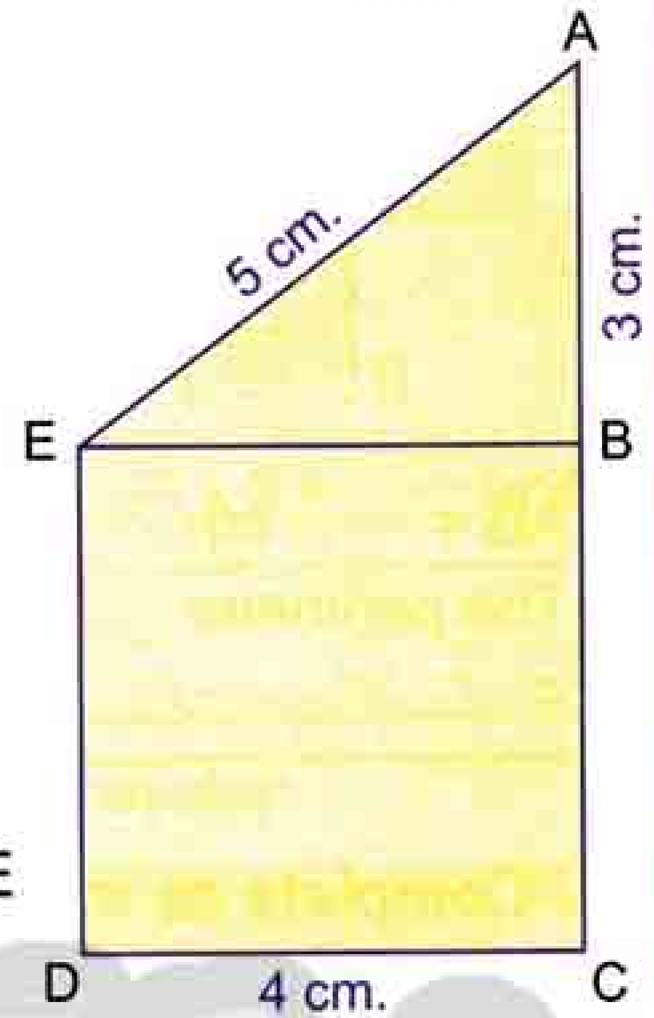
= .... = ... cm.

(2) The perimeter of the triangle ABE

= .... = ... cm.

(3) The perimeter of the whole shape ACDE

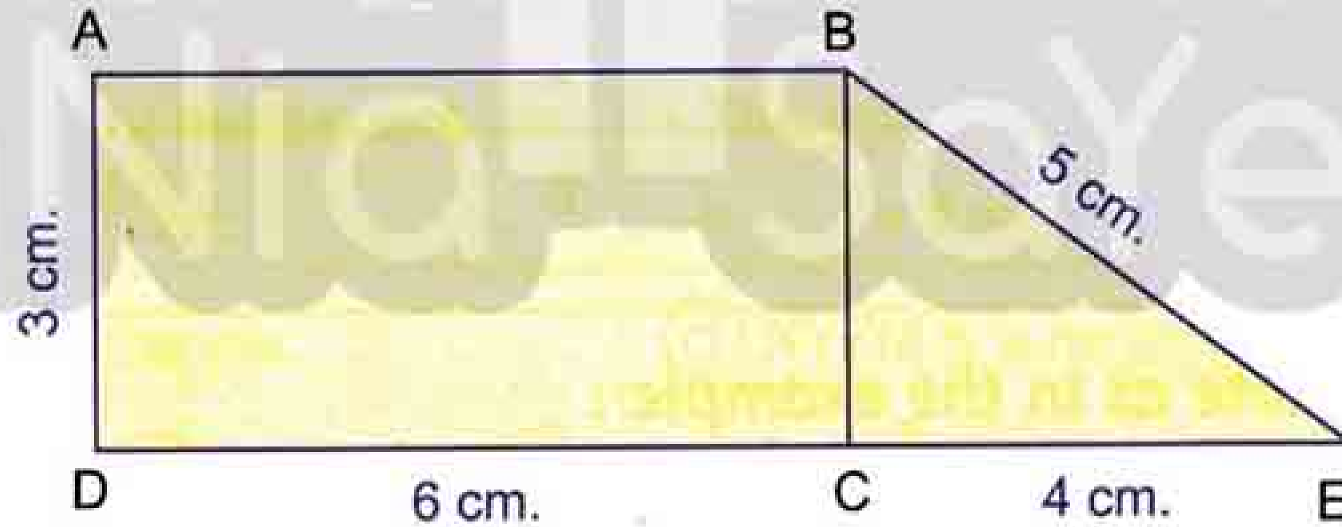
= .... = ... cm.



ⓑ In the following figure :

ABCD is a rectangle where AD = 3 cm.

, DC = 6 cm. , CE = 4 cm. and EB = 5 cm.



Calculate :

(1) The perimeter of the rectangle ABCD = ... cm.

(2) The perimeter of the triangle BCE = ... cm.

(3) The perimeter of the shape ABED = ... cm.

12 Complete :

(a) The perimeter of a square = ... × ....

(b) The perimeter of a rectangle = (.................... + ...) × ....

(c) A square the length of its side is 3 cm. , then its perimeter = ... cm.

(d) The perimeter of the square whose side length is 1 cm. = ... cm.

(e) The perimeter of the rectangle whose length is 8 cm. , and its width is 4 cm. = ... cm.

(f) The perimeter of the rectangle whose dimensions are 16 cm. , 10 cm. = ... cm.

(g) The perimeter of the rectangle whose length is 2 m. and its width 150 cm. = ... cm.

13 Complete the following table :

The side length of a square (cm.)	2	3	5	....	8	....	15	....
The perimeter of this square (cm.)	8	12	....	24	....	40	....	84

14 Find :

(a) Find the perimeter of a square of side length is 7 cm.

The perimeter = ... = ... cm.

(b) Find the perimeter of a rectangle of length 7 cm. and width 3 cm.

The perimeter = ... = ... cm.

(c) Find the perimeter of a square of side length 5 cm.

The perimeter = ... = ... cm.

(d) Find the perimeter of a rectangle whose length is greater than its width by 3 cm. , if its width is 2 cm.

The perimeter = ... = ... cm.

Unit 2

15 Put the suitable sign (> or < or =) :

ⓐ The perimeter of square (4 cm.) ...... the perimeter of triangle (6 cm., 4 cm., 3 cm.)

ⓑ The perimeter of rectangle (6 cm., 4 cm.) ...... the perimeter of square (5 cm.)

ⓒ The perimeter of triangle (6 cm., 6 cm., 6 cm.) ...... the perimeter of rectangle (5 cm., 3 cm.)

ⓓ The perimeter of figure (1 cm.) ...... the perimeter of figure (1 cm.)

16 Calculate the perimeter of each of the following :

ⓐ 2 cm. 2 cm. 5 cm.

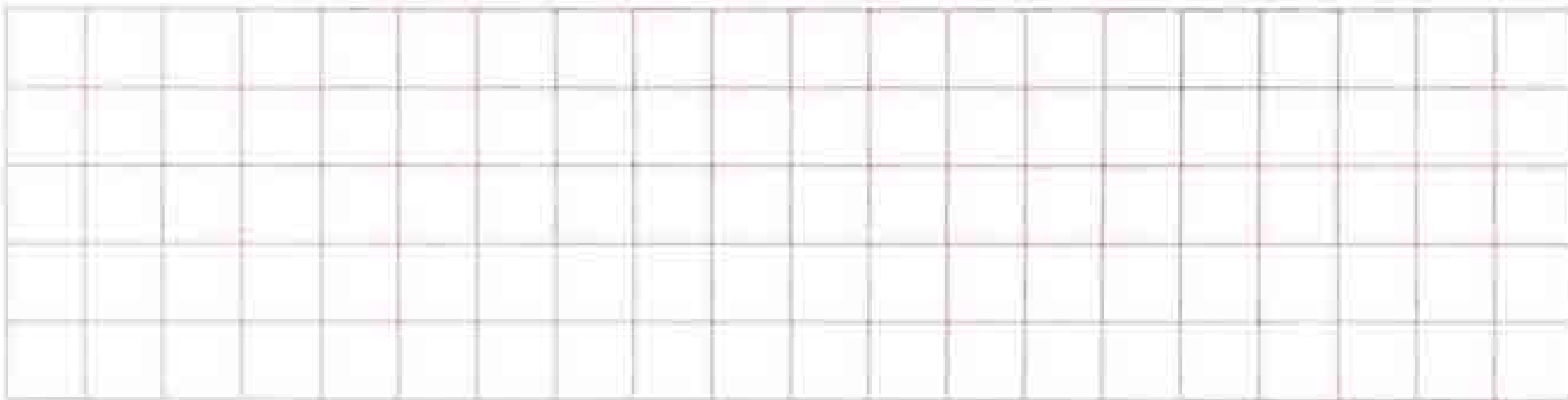
The perimeter = ... cm.

ⓑ 3 cm. 4 cm. 1 cm. 1 cm.

The perimeter = ... cm.

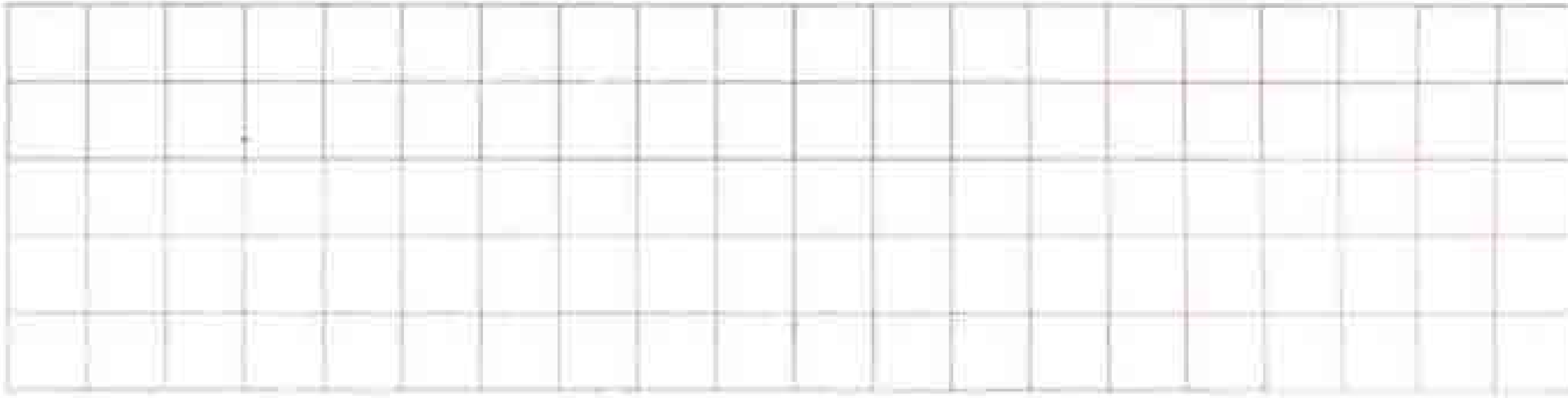
17 Draw :

ⓐ A square of side length 4 units , then write its perimeter.



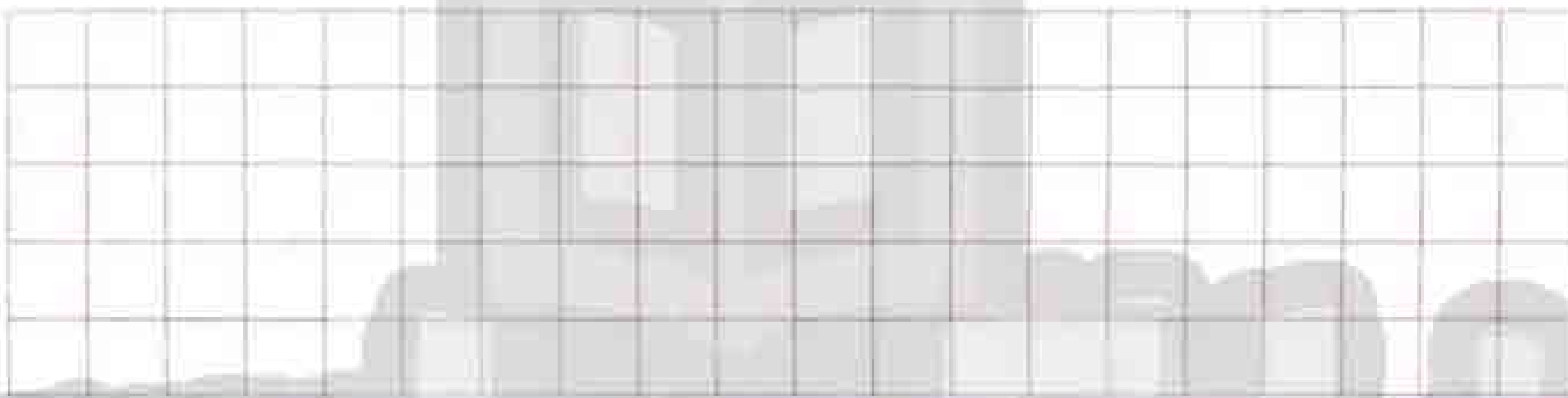
The perimeter = ... units.

ⓑ A rectangle of length 6 units and width 3 units , then write its perimeter.



The perimeter = ... units.

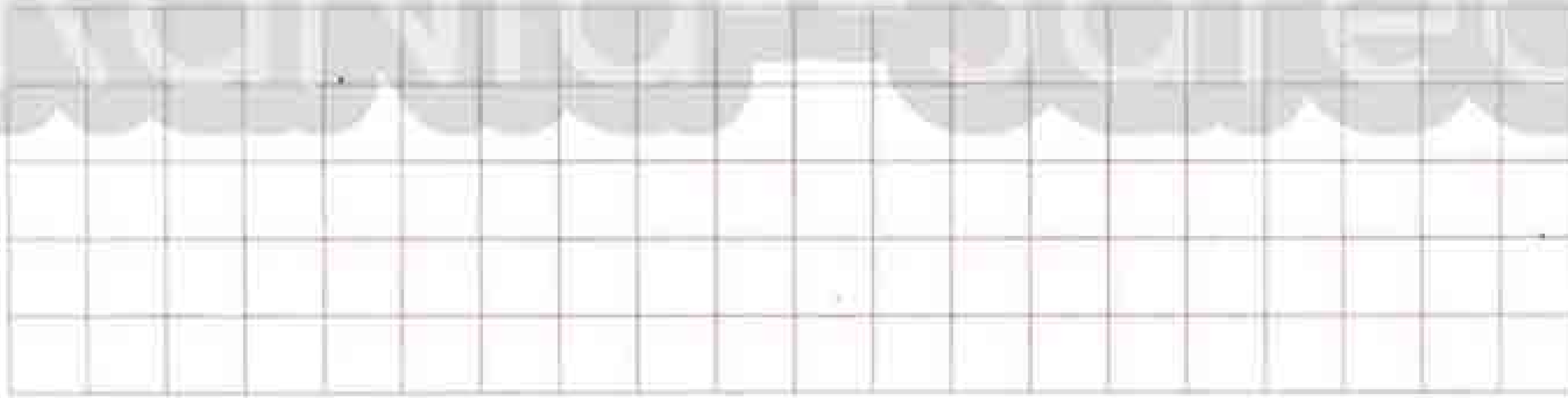
ⓒ A square with perimeter 20 units.



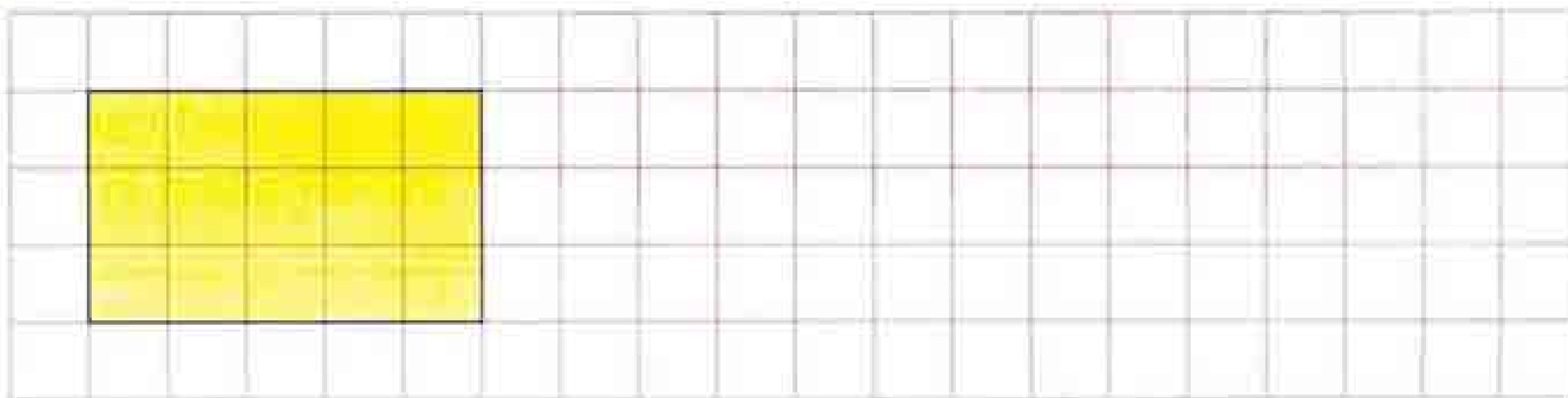
Think And Answer

Draw the required figure with the given perimeter :

ⓐ A rectangle with perimeter 20 units.



ⓑ A square with the same perimeter of the given rectangle.



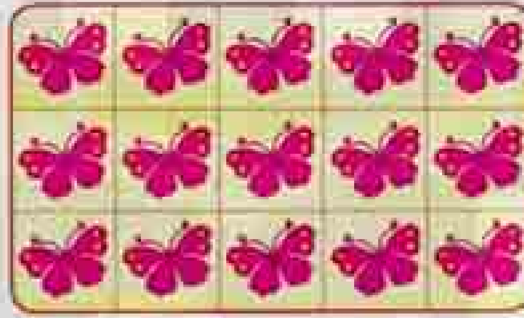


LESSON 2

The area

- **Bassem uses some stickers to cover the following 3 cards. How many stickers does he need to cover each one ?!**


Card A


Card B


Card C

- He needs 18 to cover card A
- He needs 15 to cover card B
- He needs 16 to cover card C

Definition :

The area of a shape is defined by the number of area units inside that shape.

So , we say that :

- The area of card A equals 18
- The area of card B equals 15
- The area of card C equals 16

Notice that :

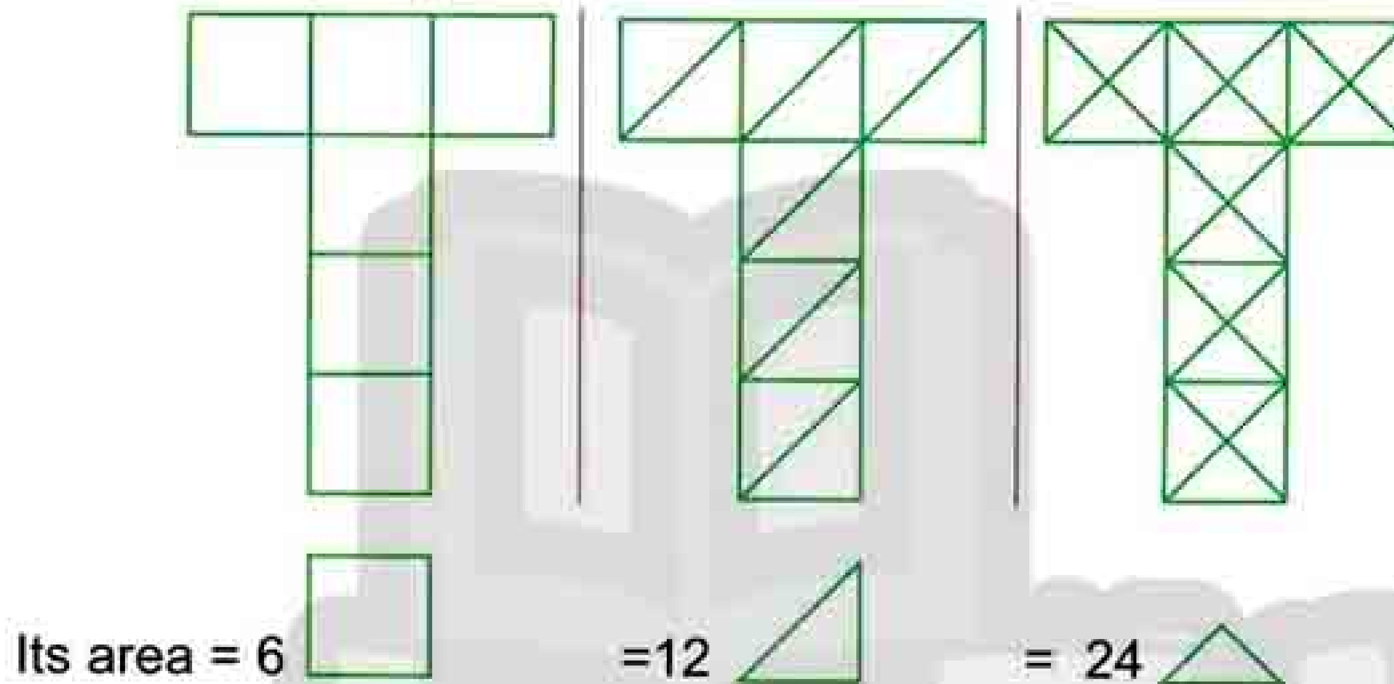
Card A is the greatest in area and card B is the smallest in area.

Remark

• The area of a shape depends on the used unit.

If this unit is changed , the area of the shape is changed as well.

For Example :



Its area = 6 □ =12 ◺ = 24 △



Exercise 8

From the school book

1 Calculate the area of each of the following figures (consider the area of the small square as a unit) :

ⓐ The area = ... ▢

ⓑ The area = ... ▢

ⓒ The area = ... ▢

ⓓ The area = ... ▢

2 Find the area of each of the following figures according to the given unit :

ⓐ The area = ... ◺

ⓑ The area = ... ▭

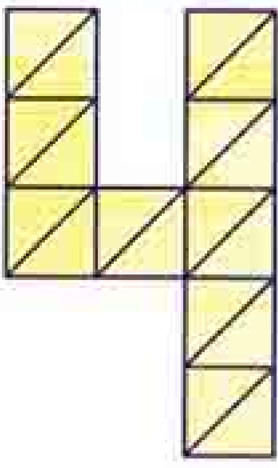
ⓒ The area = ... △

ⓓ The area = ... △

ⓔ The area = ... △

ⓕ The area = ... ▢
= .... ◺

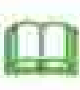
(g)

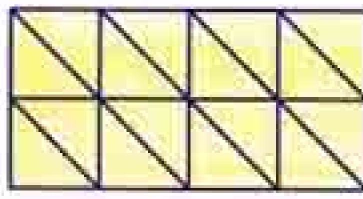


The area = ...

= ....

(h)



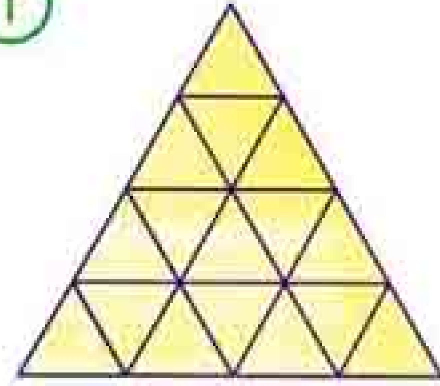


The area = ...

= ....

= ....

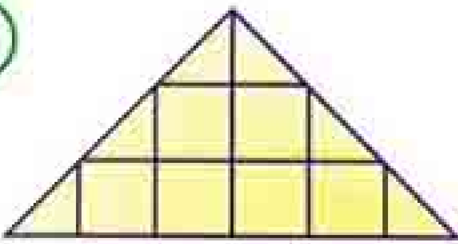
(i)



The area = ...

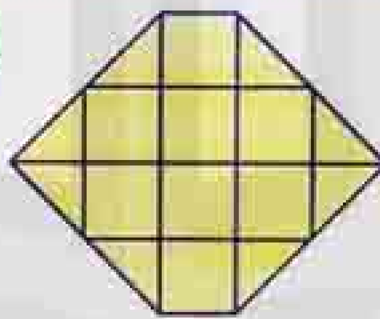
= ....

(j)



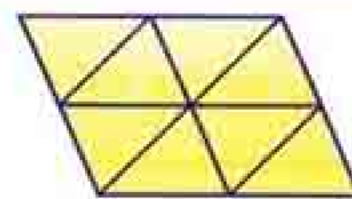
The area = ...

(k)



The area = ...

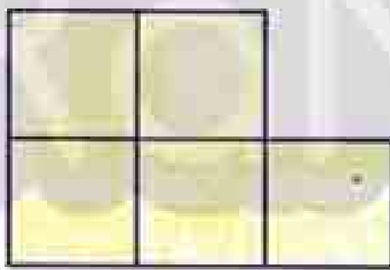
(l)

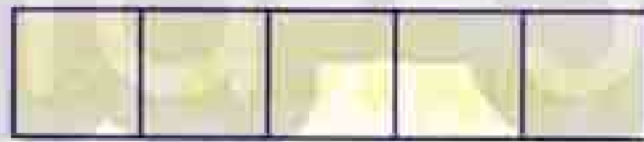


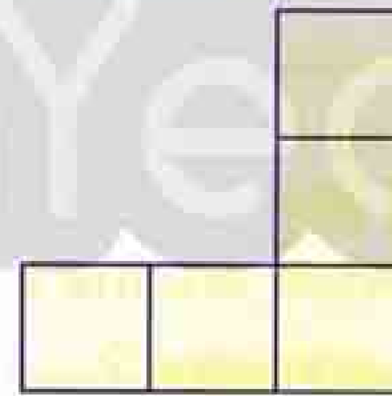
The area = ...

= ....

3 In the following figures :







(a) Do the three opposite shapes have the same area ? (Yes / No)

Why ? ....

(b) Search if they have the same perimeter ? (Yes / No)

Why ? ....

4 Notice the figures , then complete :

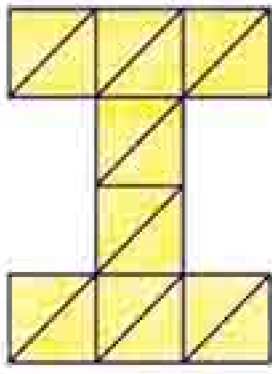


Fig. (1)

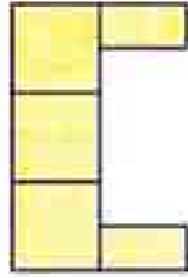


Fig. (2)

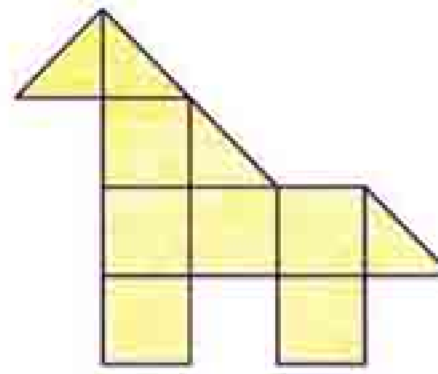


Fig. (3)

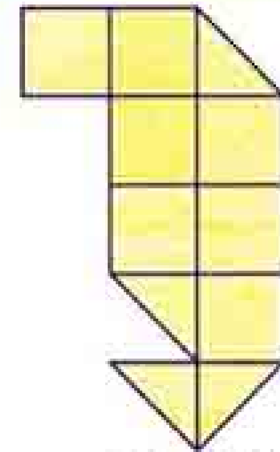
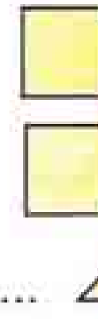


Fig. (4)

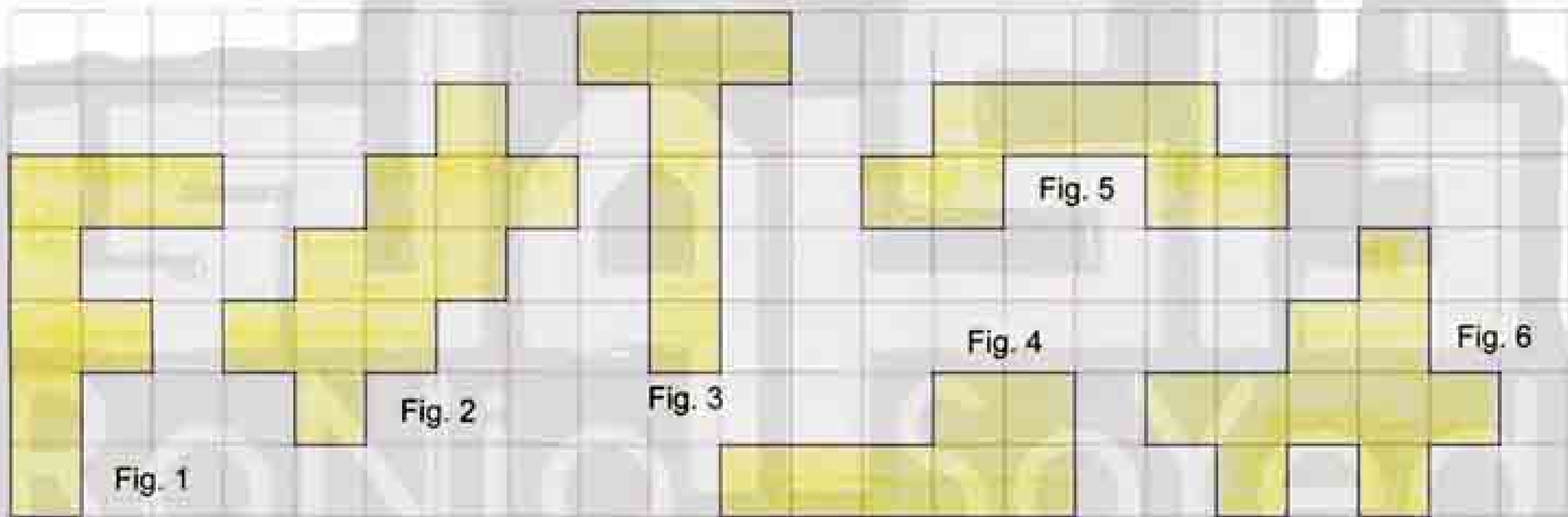


ⓐ Fig. (..........) has the greatest area which equals ....

ⓑ Fig. (..........) has the smallest area which equals ....

ⓒ The area of fig. (..........) = the area of fig. (..........) = ...

5 Notice the figures , then answer :



ⓐ What are the two figures that have the same area and the same perimeter ?

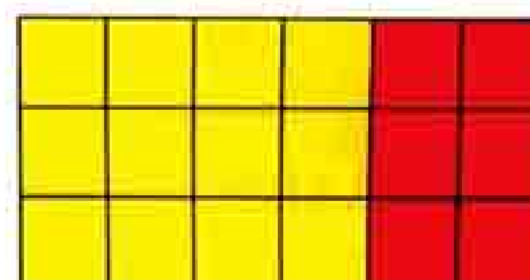
Fig. (..........) and Fig. (..........)

ⓑ What are the two figures that have the same area but not the same perimeter ?

Fig. (..........) and Fig. (..........)

ⓒ What are the two figures that have the same perimeter but not the same area ?

Fig. (..........) and Fig. (..........)



6 The opposite figure represents a large rectangle divided into two rectangles :

ⓐ Consider the length of the small square's side a unit of length and the area of the small square a unit of area then complete the following table :

	Perimeter	Area
The red rectangle	....	....
The yellow rectangle	....	....
The large rectangle	....	....

ⓑ Answer with Yes or No and explain why :

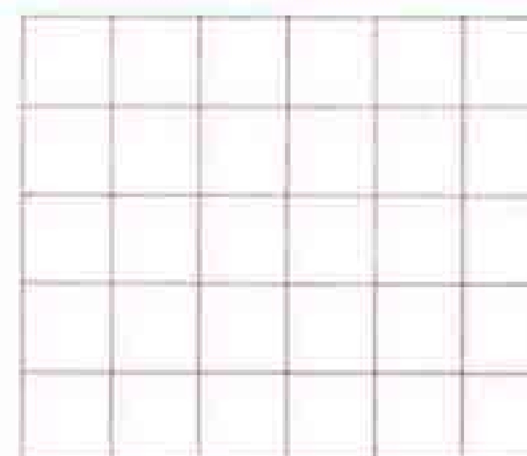
(1) The perimeter of the large rectangle = the sum of the perimeters of the two rectangles (Yes / No)

(2) The area of the large rectangle = the sum of the areas of the two rectangles (Yes / No)

7 On the opposite lattice , draw a square whose side length is 3 units , then complete :

ⓐ The perimeter of the square = ... units.

ⓑ The area of the square = ... ☐



8 **Draw the required shapes with the given areas :**

ⓐ A shape with area 8 □

ⓑ A shape with area 12 □

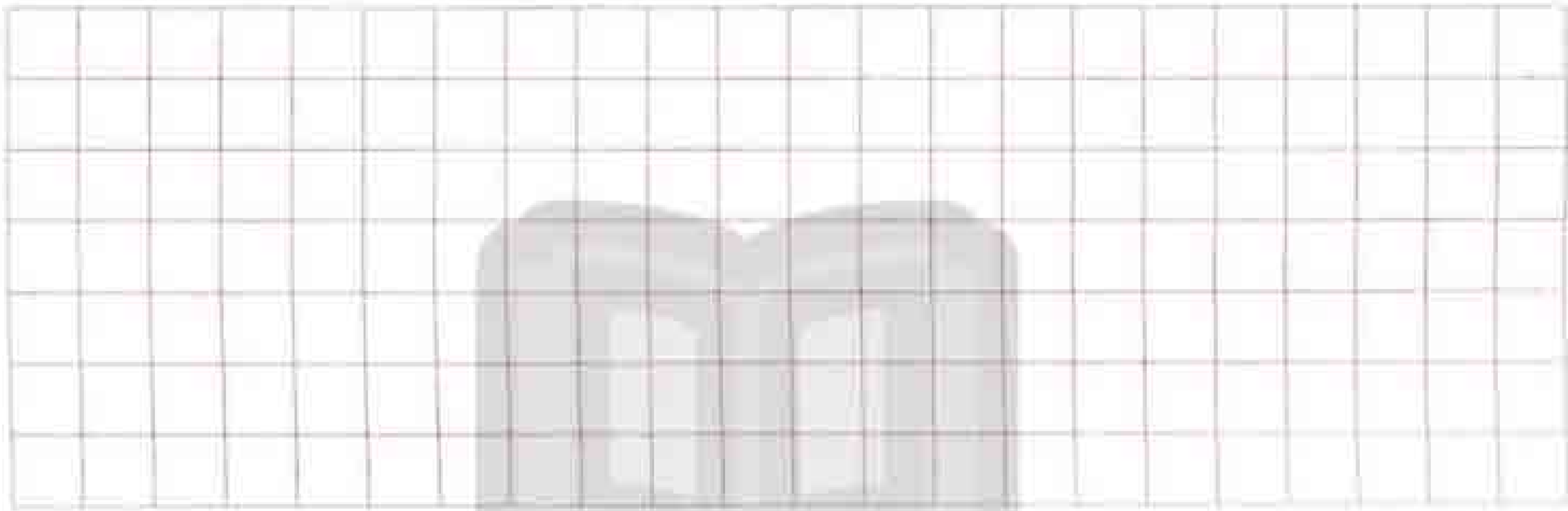
ⓒ A shape with area 16 △

ⓓ A shape with area 20 △

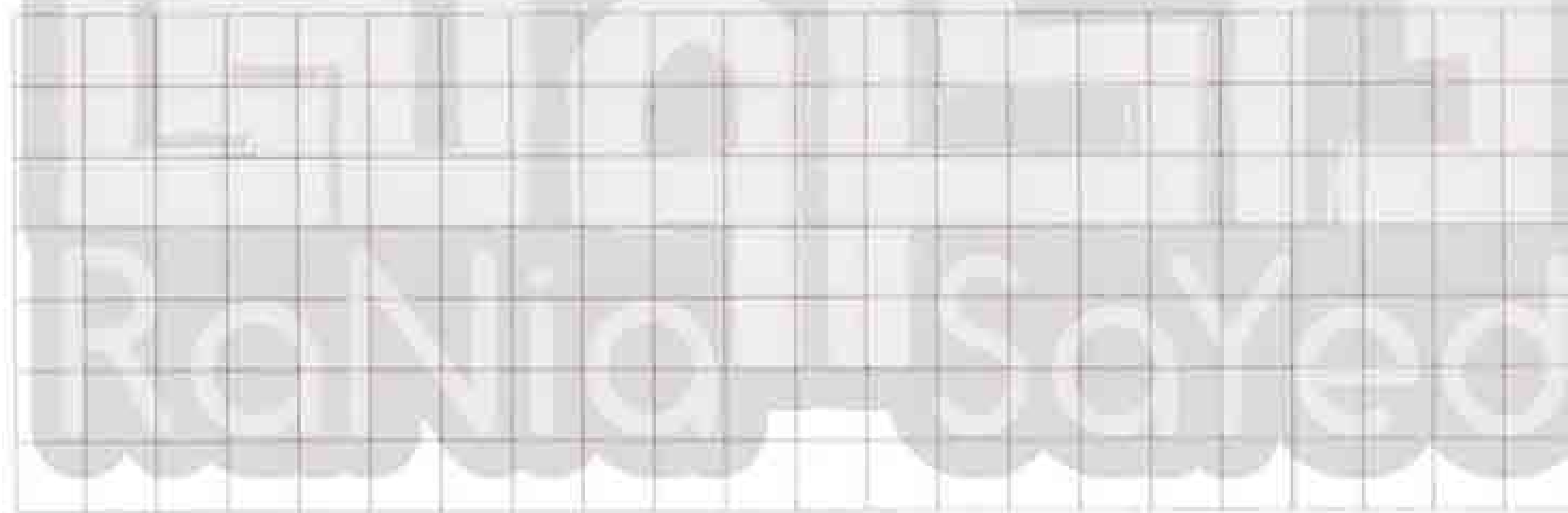
LESSON 2

Think And Answer

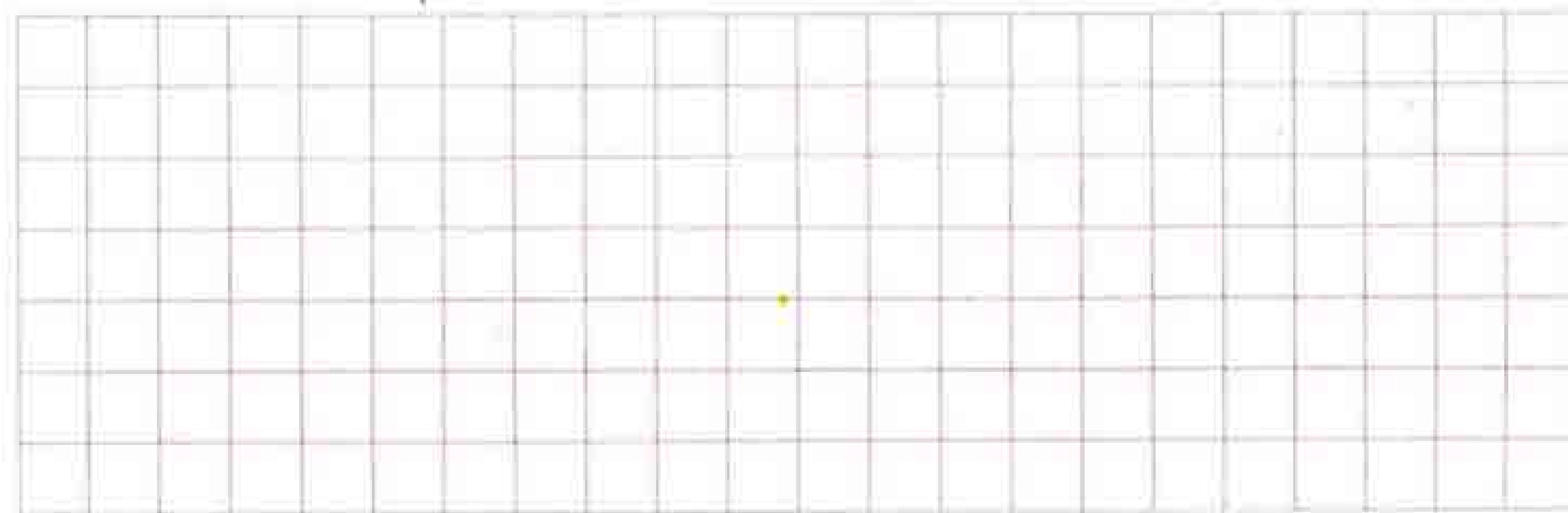
ⓐ Draw two shapes having the same area but not the same perimeter :



ⓑ Draw two shapes having the same perimeter but not the same area :



ⓒ Draw a square and a rectangle having the same area :





General exercise on unit two from the school book

1 Find the perimeter of the square whose side length is 3 cm.

The perimeter of the square = ... × .... = ... cm.

2 Find the perimeter of the triangle whose side lengths are 5 cm. , 7 cm. and 10 cm.

The perimeter of the triangle = ... + ... + ...

= .... cm.

3 The side lengths of a triangle are equal, each of them equals 7 cm. Find the perimeter of the triangle.

The perimeter of the triangle = ... + ... + ...

= .... cm.

4 A rectangle, its length = 5 cm. and its width = 3 cm. Calculate its perimeter.

The perimeter = ... = ... cm.

5 ABC is a triangle where AB = 3 cm. , AC = 5 cm. and BC = 4 cm. Calculate the perimeter of Δ ABC

The perimeter of Δ ABC = ...

6 **Complete :**

① The perimeter of any polygon = ...

② The perimeter of the square = The side length × ....

③ The perimeter of the rectangle = (length + ...) × ....

7 A triangular piece of land, its perimeter = 100 m.

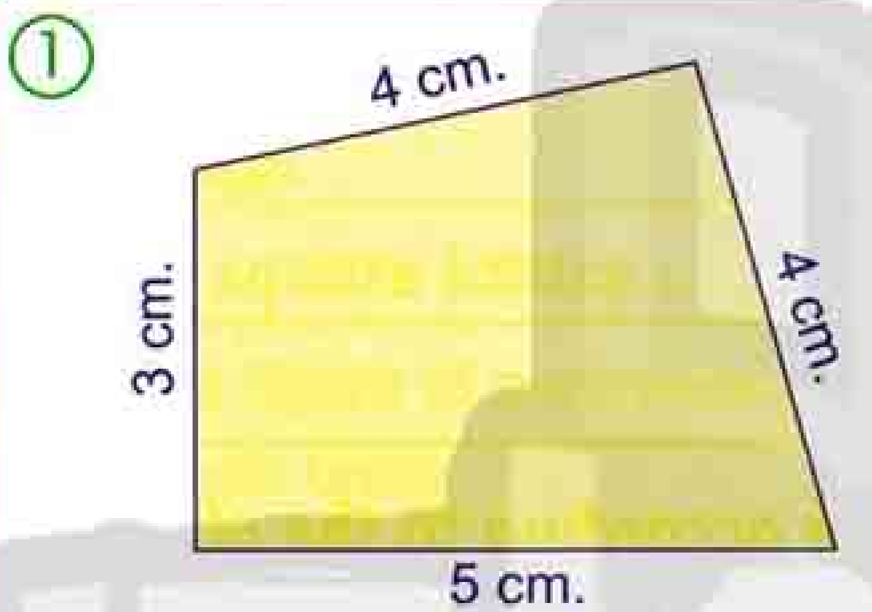
If the sum of the lengths of two sides of it = 70 m.

Find the length of the third side.

The length of the third side = ... – .... = ... m.

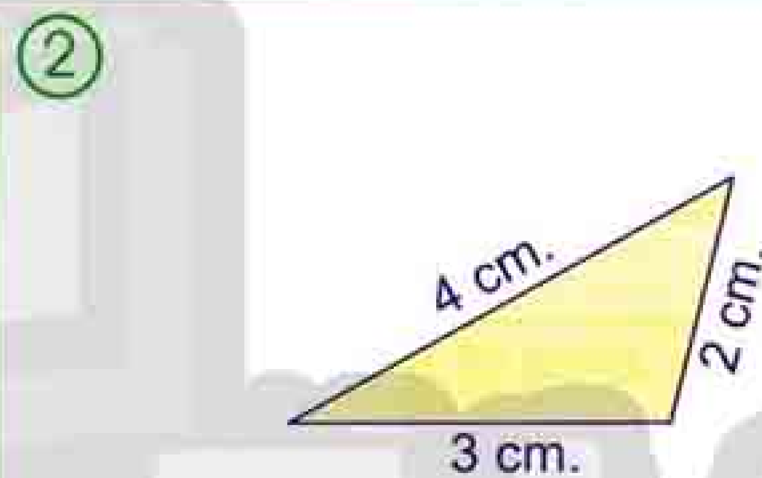
8 **Calculate the perimeter of each of the following shapes using the shown on each shape :**

①



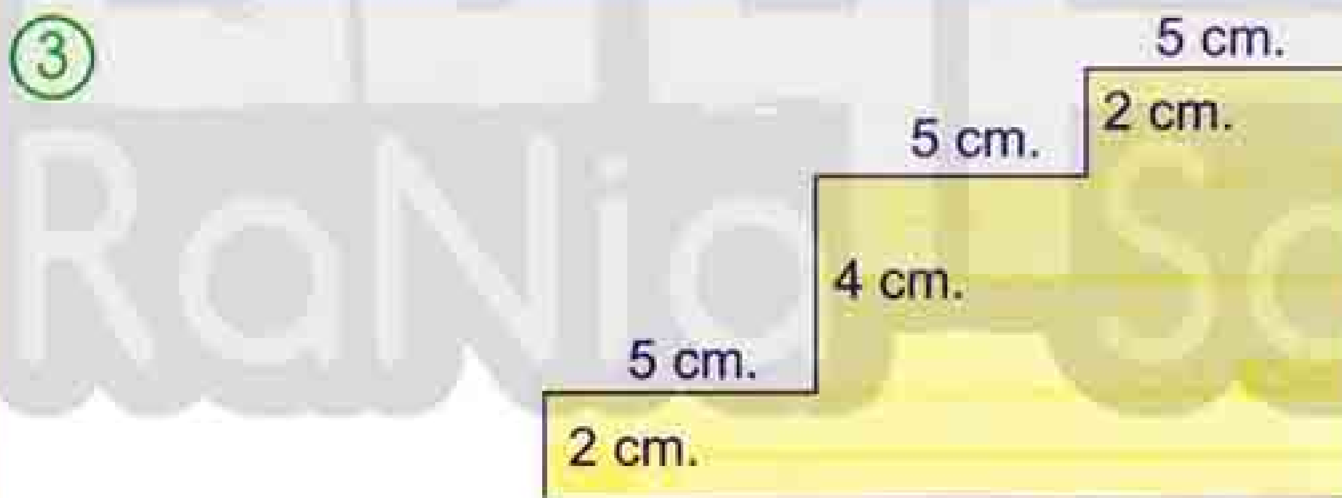
The perimeter = ... cm.

②



The perimeter = ... cm.

③



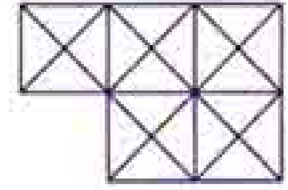
The perimeter = ... cm.

9 A triangular piece of land , the sum of two of its sides equals 90 m. , its perimeter is 120 m.

Find the length of its third side = ... = ...

10 **In the opposite figure :**

Find :

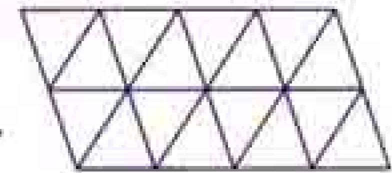


① The area of the figure = ... □

② The perimeter of the figure = ... length units.

11 **In the opposite figure :**

Find :

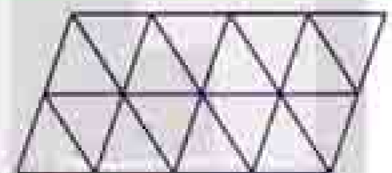


① The perimeter of the figure = ... length units.

② The area of the figure = ...

③ The area of the figure = ...

12 **Find the area of the opposite shape according to the given unit :**



Area of the shape = ... 

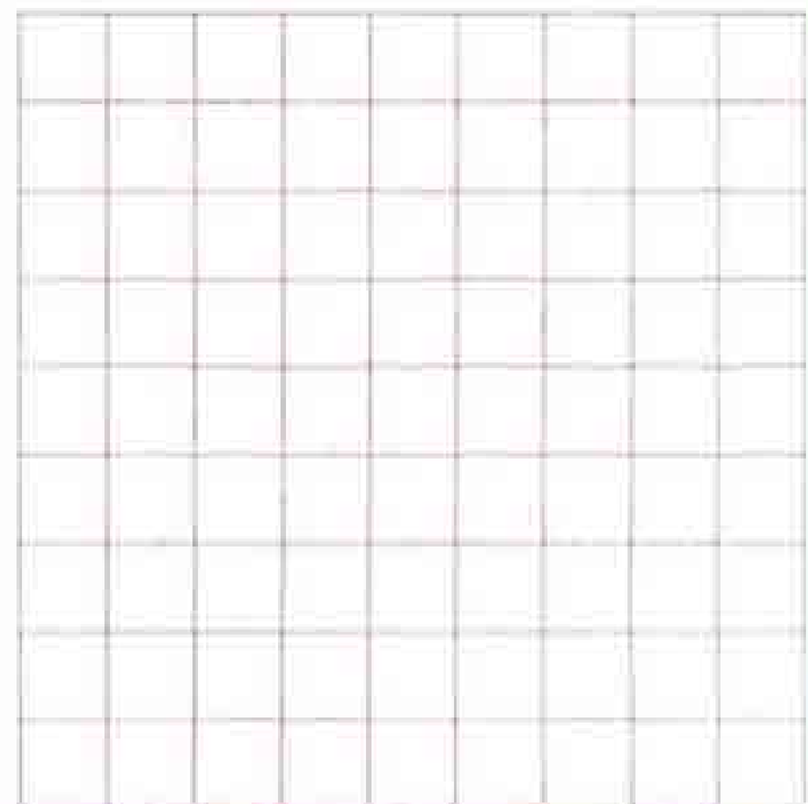
= .... 

= .... 

13 **On the square lattice :**

Draw a figure of area 10 square units.

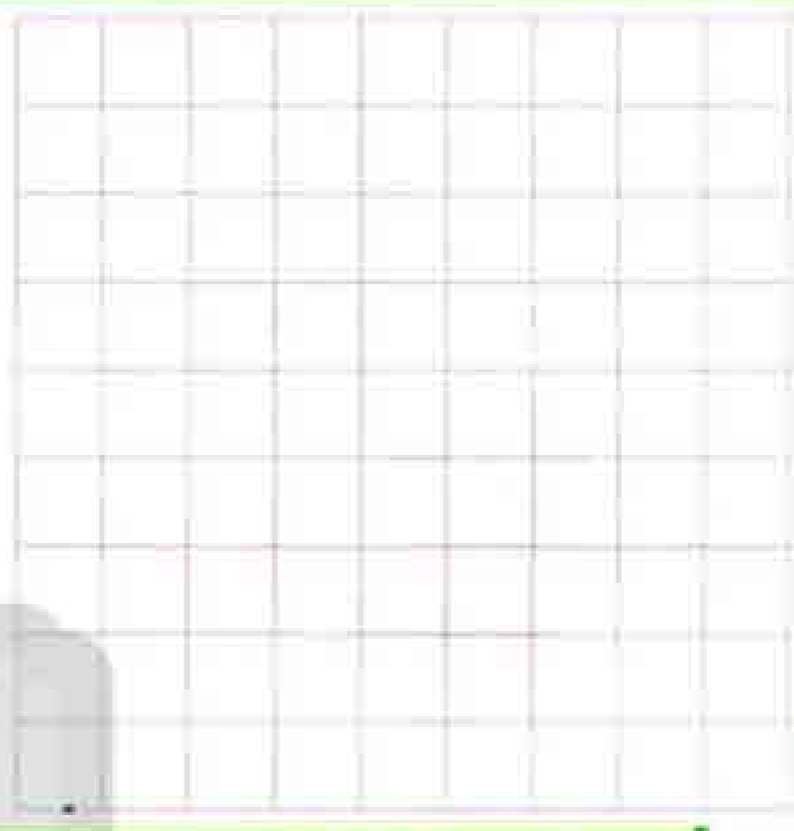




14 On the square lattice :

Draw a shape with area of 8 square units. (Consider the length of the small square's side a unit of length and its area a unit of area)

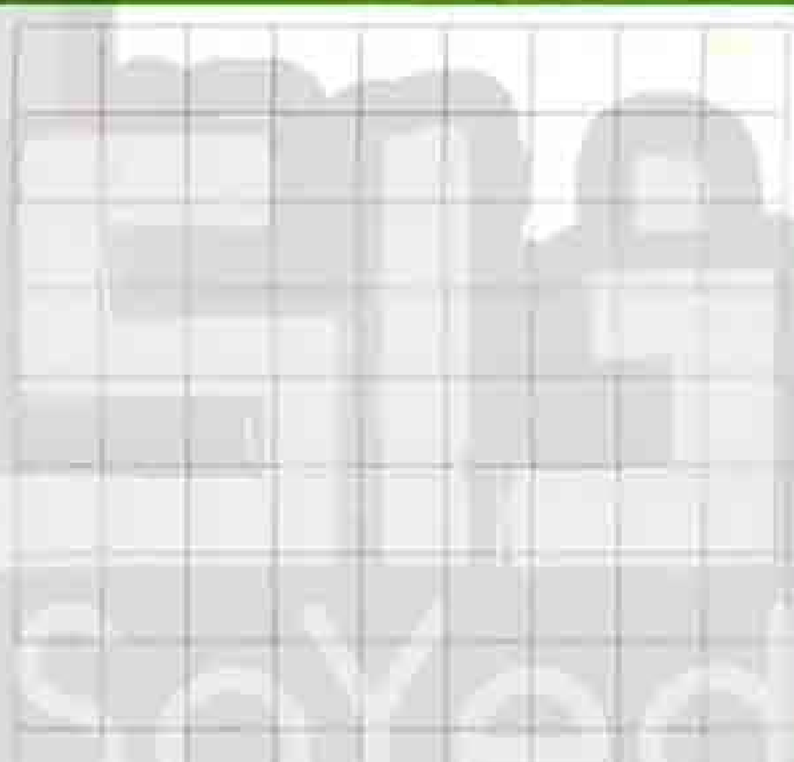




15 On the square lattice :

Draw a figure of perimeter 12 length units.

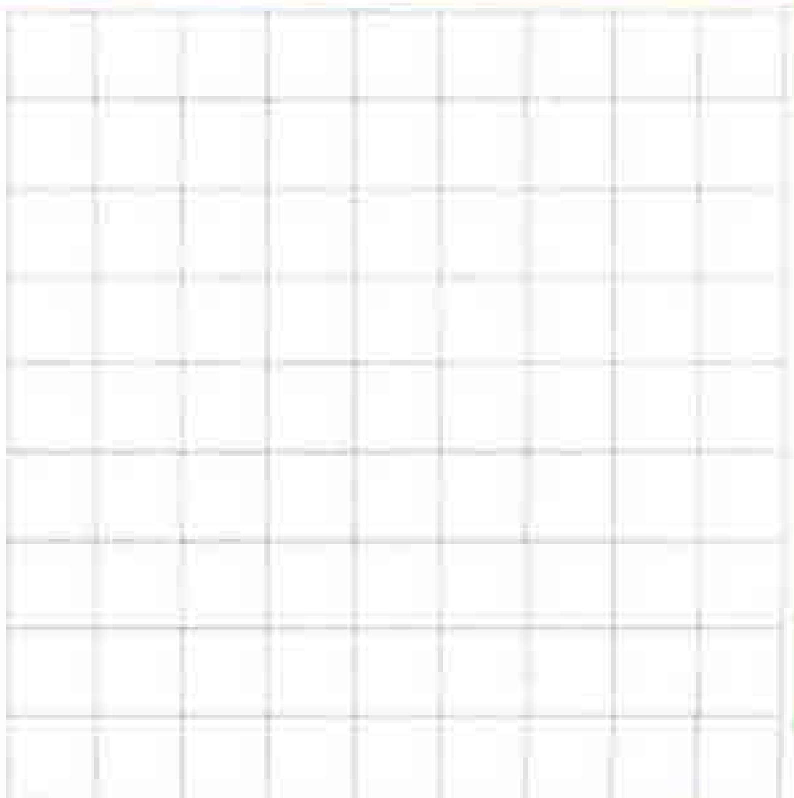




16 On the square lattice :

Draw a shape with a perimeter of 8 units of length. (Consider the length of the small square's side a unit of length and its area a unit of area)



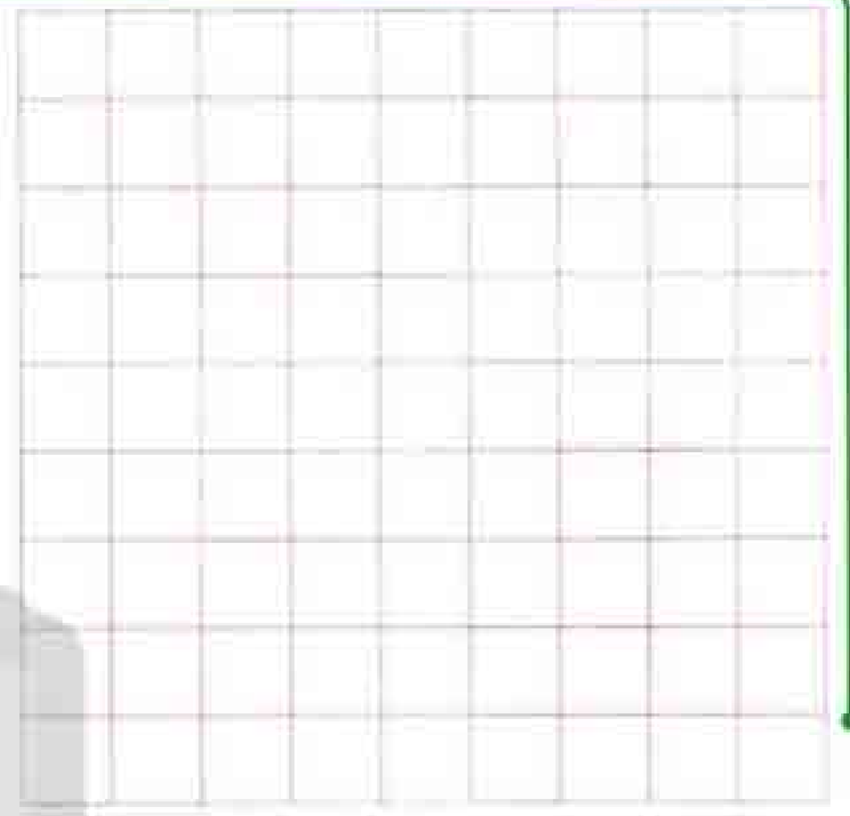


17 **On the square grid , draw :**

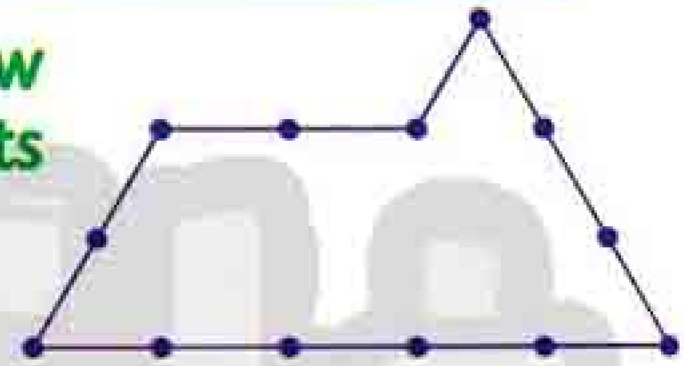
① A figure of perimeter 8 length units.

② Another figure of area 9 square units.





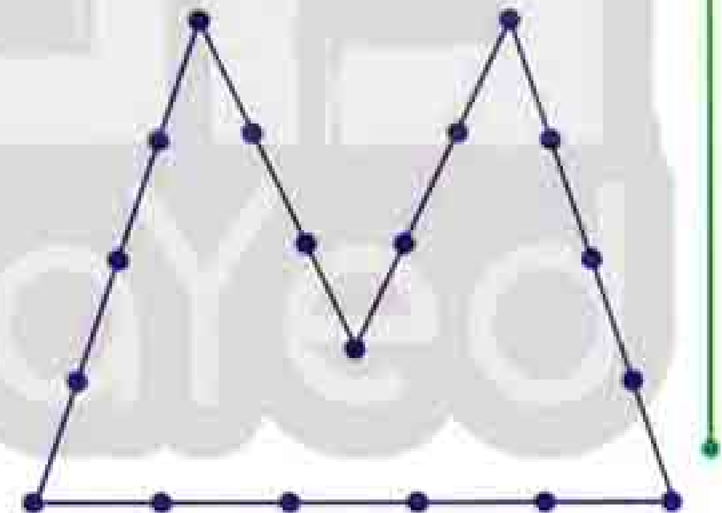
18 **Find the perimeter of this shape if you know that the distance between each two points is 1 centimetre long.**



19 **In the opposite figure :**

If the distance between any two consecutive points is one centimetre.
Find the perimeter of the figure.

The perimeter of the figure = ... cm.



20 **Choose the correct answer from those between brackets :**

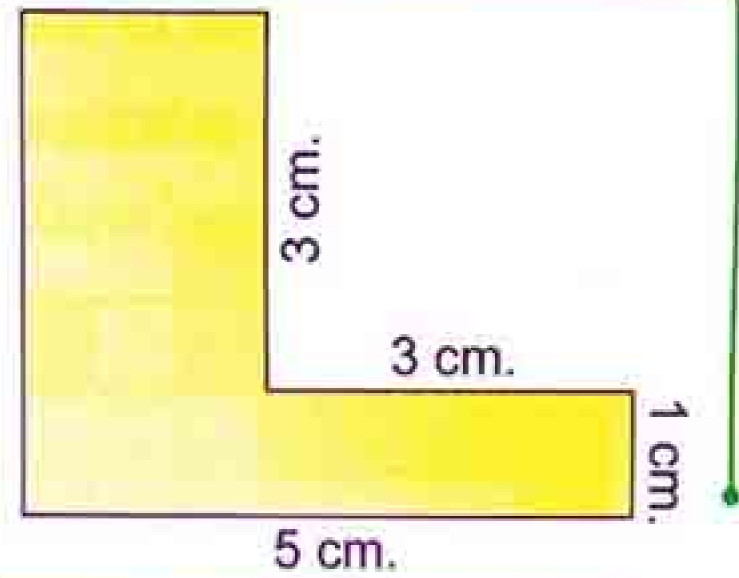
① The perimeter of the square whose side length is 1 cm. is .... cm. (1 *or* 4 *or* $\frac{1}{4}$)

② The perimeter of the rectangle whose length is 4 cm. and its width is 2 cm. , its perimeter = ... cm. (12 *or* 14 *or* 16)

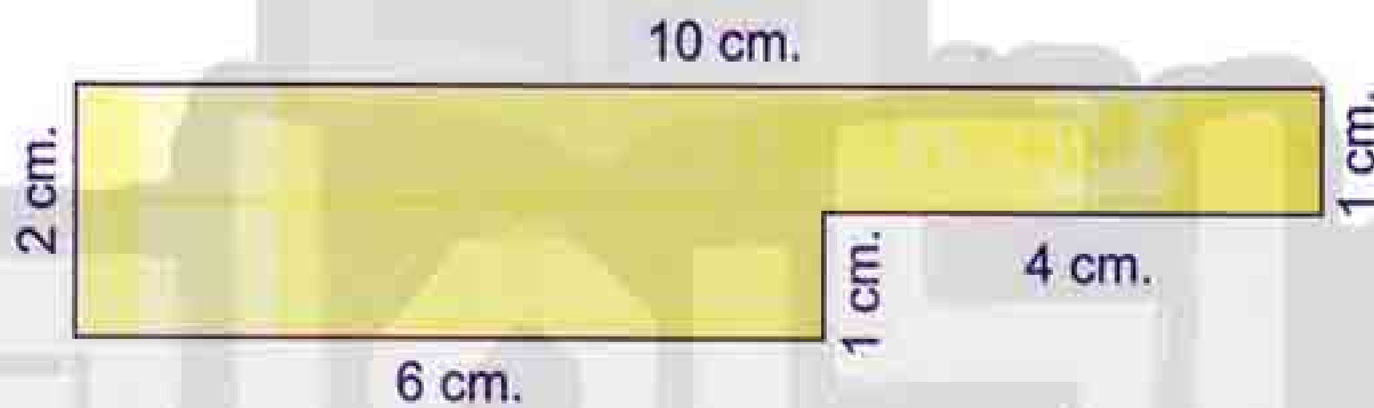
③ The perimeter of the triangle whose sides lengths are 3 cm. , 4 cm. and 6 cm. equals .... cm. (13 *or* 14 *or* 15)

21 Calculate the perimeter of the opposite figure :

The perimeter = ... cm.



22 In the following figure , calculate the perimeter of the figure in cm. :

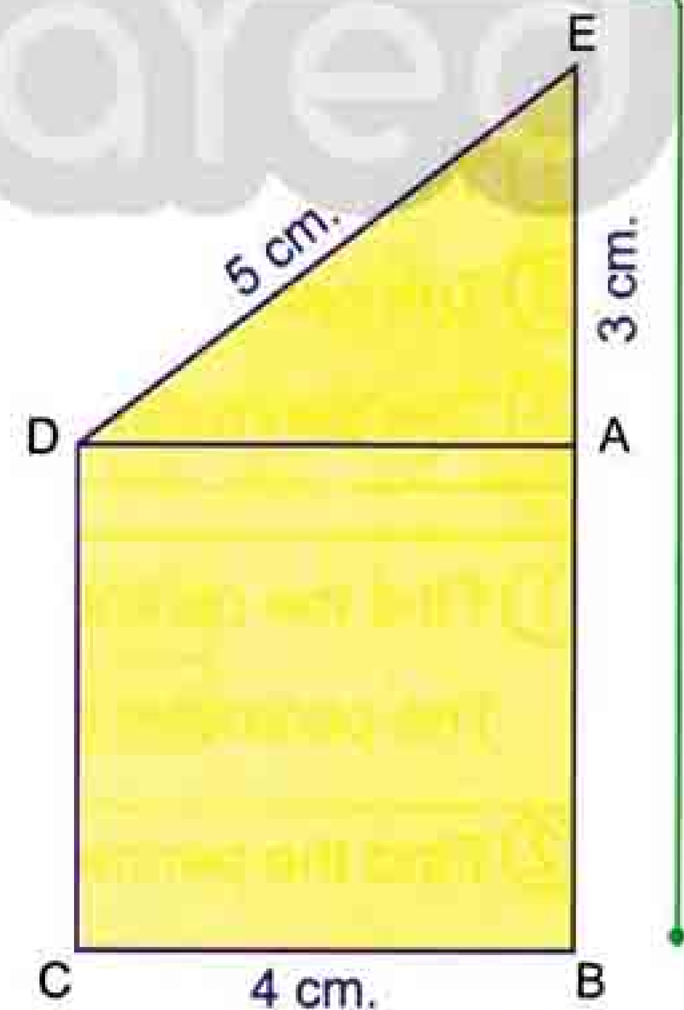


23 In the opposite figure :

ABCD is a square , BC = 4 cm.

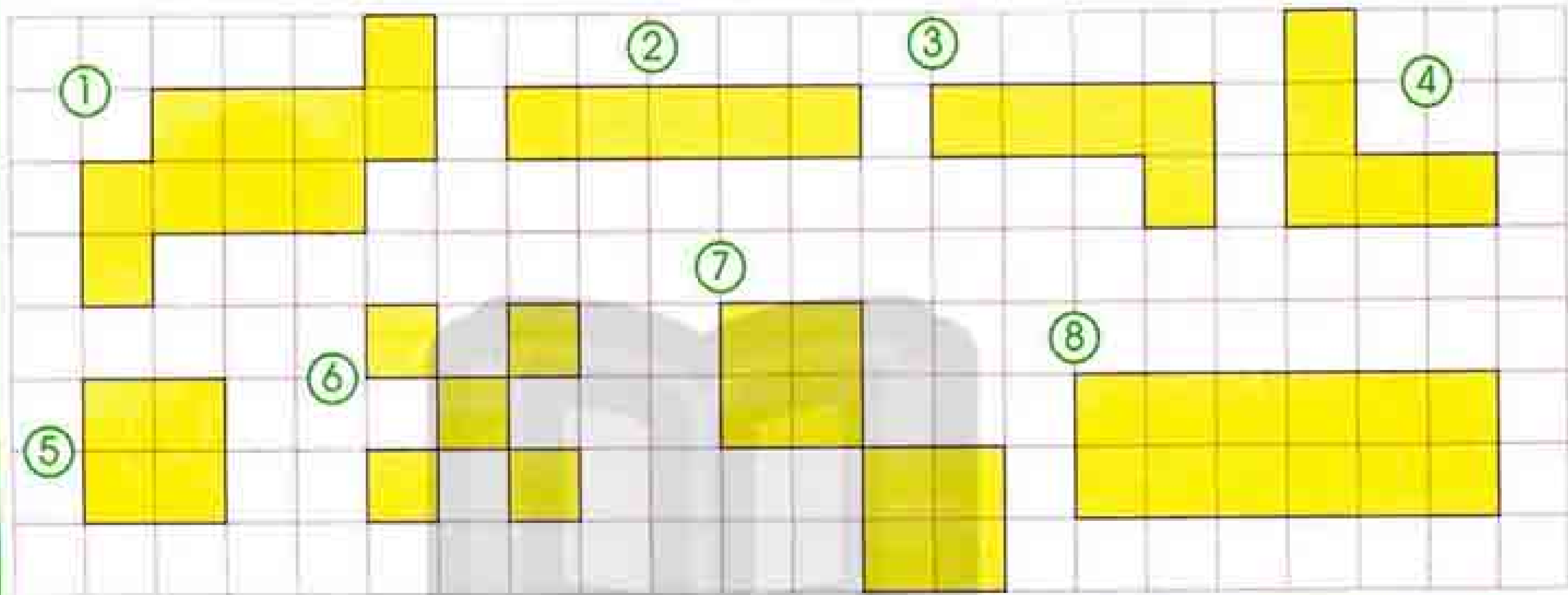
AE = 3 cm. and ED = 5 cm.

Calculate the perimeter of figure EBCD

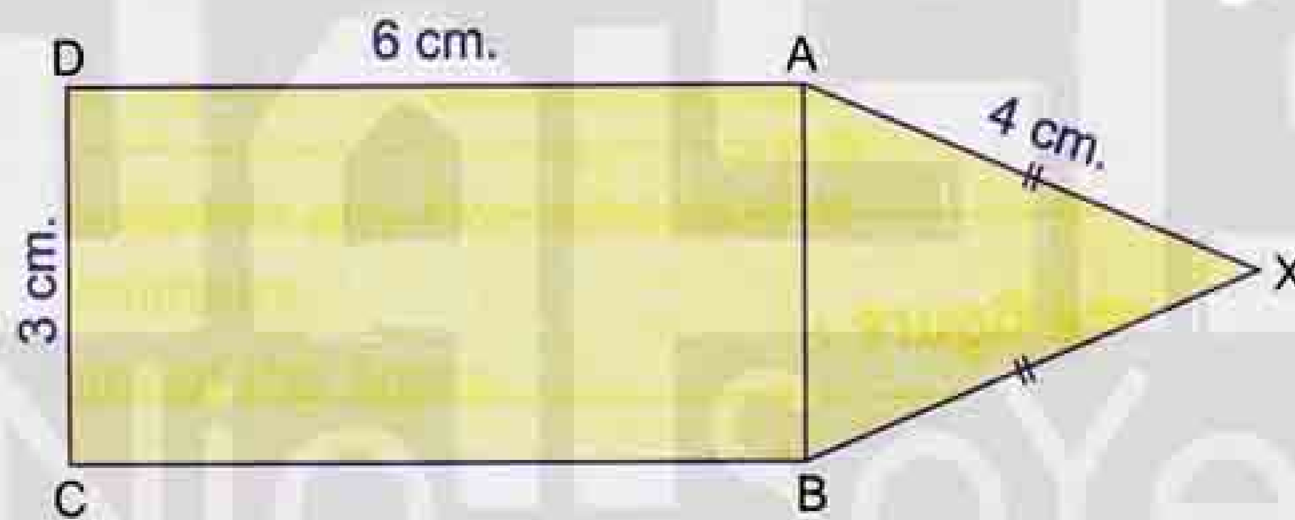


24 In the following lattice :

Calculate the area of each of the shaded figures, then determine the equal areas in square units considering □ as a unit of area :



25 In the opposite figure , find :



① The perimeter of the rectangle ABCD = ... cm.

② The perimeter of Δ ABX = ... cm.

③ The perimeter of the figure AXBCD = ... cm.

26 ① Find the perimeter of a square whose side length is 3 cm.

The perimeter of the square = ... = ... cm.

② Find the perimeter of a triangle whose side lengths are 5 cm., 7 cm. and 10 cm.

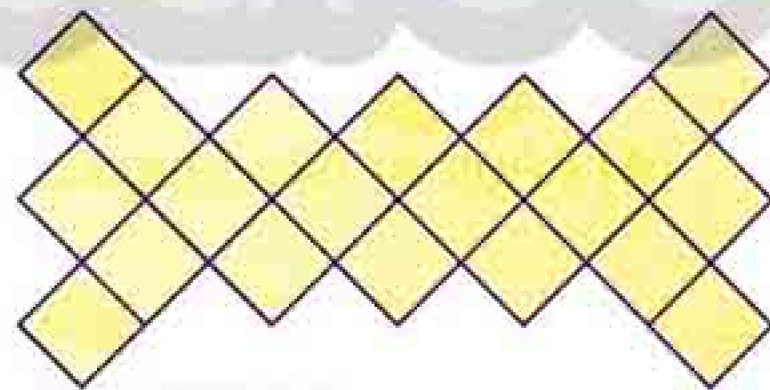
The perimeter of the triangle = ... = ... cm.

Activities from the School book

1 Find the perimeter and the area of each of the rectangles in the opposite figure and complete the following table :

	The red rectangle	The green rectangle	The yellow rectangle
The perimeter	....	....	....
The area	....	....	....

2 Find the perimeter and the area of the opposite shape according to the given unit :



ⓐ The perimeter = ... units.
(Consider the length of the small square's side as a unit)

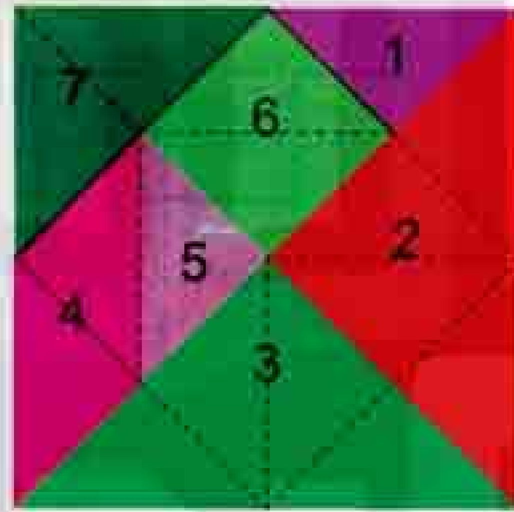
ⓑ The area = ... □ = ... ▭ = ... ⊞

Unit 2

3 **The opposite shape represents a square divided into seven shapes numbered 1-7 Consider the area of shape (1) as a unit of area , then :**

(a) Find the area of the rest of the shapes and complete the following table :

Shape	1	2	3	4	5	6	7	The large square
Its area	1	....	....	....	....	....	....	....



(b) Write the numbers of :

(1) Two congruent shapes. .... and ....

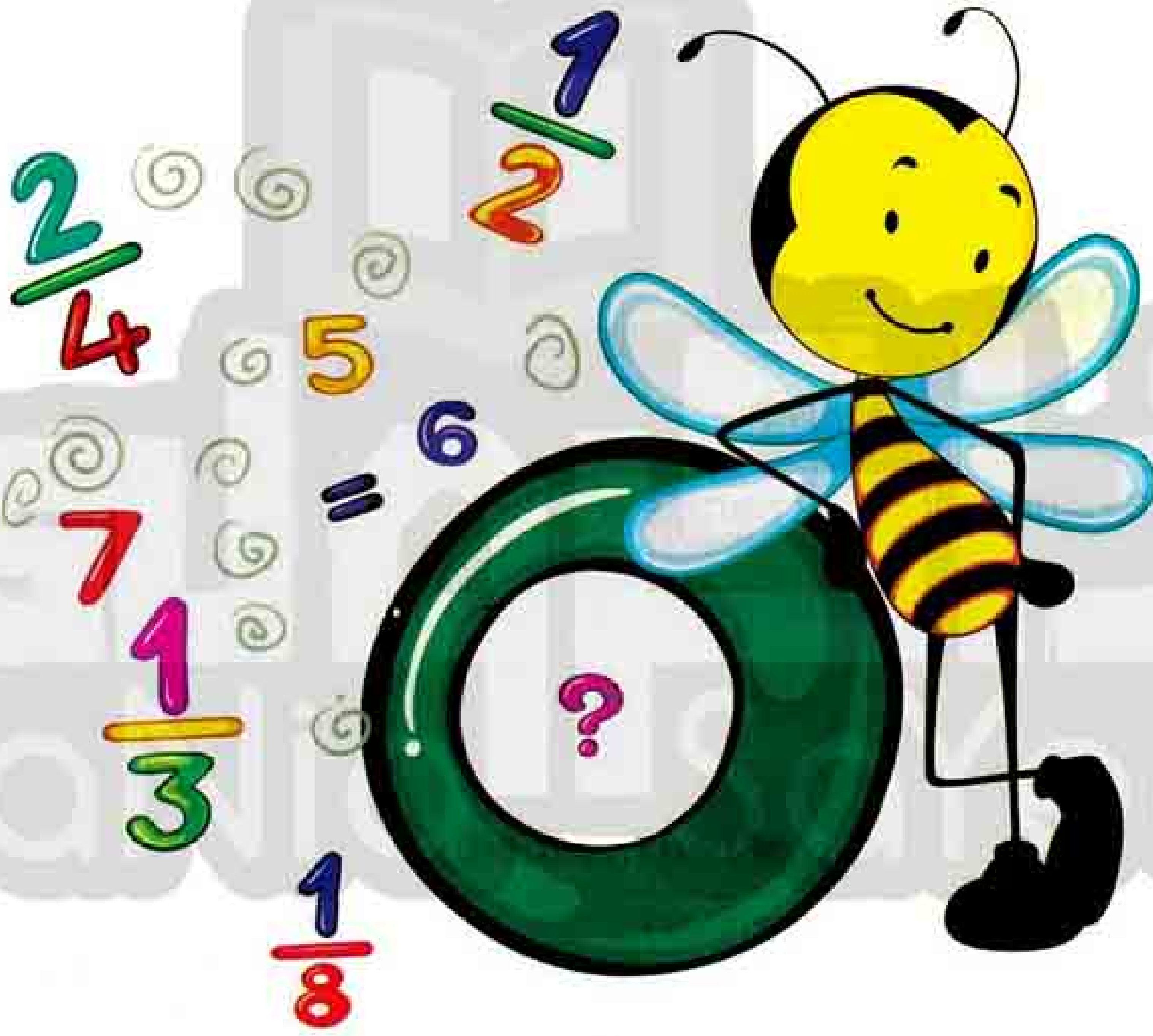
(2) Another two shapes that are congruent. .... and ....

(3) Two shapes that are equal in area but not congruent.
.... and ....

(4) Another two shapes that are equal in area but not congruent.
.... and ....

UNIT 3

Fractions



- **Lesson 1 :** The meaning and reading of fractions.
- **Lesson 2 :** Equal fractions.
- **Lesson 3 :** Comparing and ordering fractions.
- **Lesson 4 :** Adding and subtracting the fractions.

- A general exercise from the school book.
- Activities from the school book.



Unit 3 LESSON 1

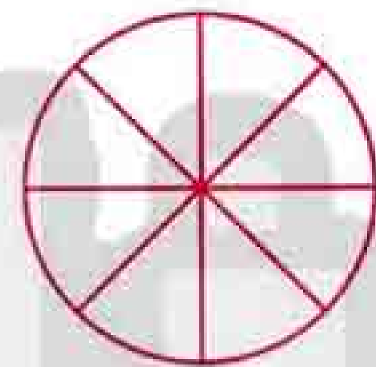
The meaning and reading of fractions

The meaning of fraction

A fraction is a number that can be used to describe a part of a whole.

- When a fraction describes a part of a whole , the whole must be divided into equal parts.

For Example :



The opposite circle is divided into 8 equal parts.

3 parts of these 8 parts are coloured.

So , the coloured part is $\frac{3}{8}$ of the whole circle.

Writing fractions

A fraction is made up of two numbers :

- The numerator (Top number) :
  It gives the number of equal parts being considered.
- The denominator (Bottom number) :
  It gives the total number of equal parts.

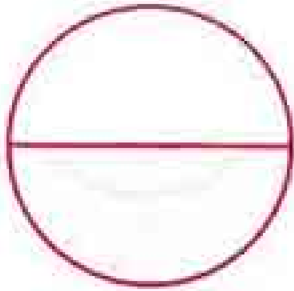
$\frac{3}{8}$ — 3 ⟵ Numerator, 8 ⟵ Denominator

LESSON 1

Reading fractions

- **Study the fractions which represent the coloured part below :**

1 part of 2 equal parts



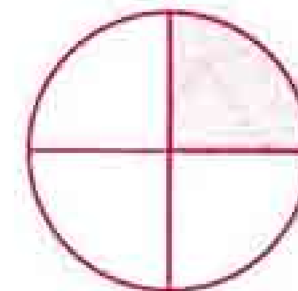
$\frac{1}{2}$ it is read as (half)

1 part of 3 equal parts



$\frac{1}{3}$ it is read as (third)

1 part of 4 equal parts



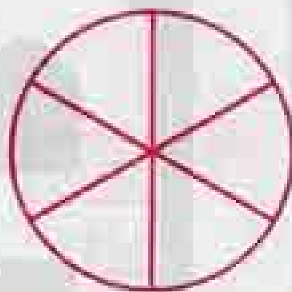
$\frac{1}{4}$ it is read as (fourth or quarter)

2 parts of 5 equal parts



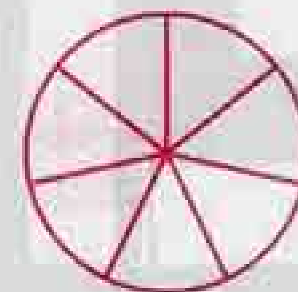
$\frac{2}{5}$ it is read as (two fifths)

5 parts of 6 equal parts



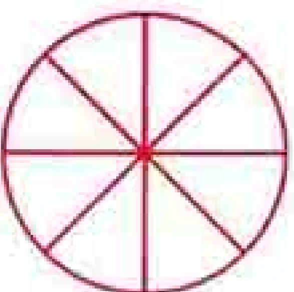
$\frac{5}{6}$ it is read as (five sixths)

4 parts of 7 equal parts



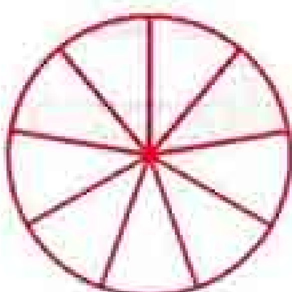
$\frac{4}{7}$ it is read as (four sevenths)

3 parts of 8 equal parts



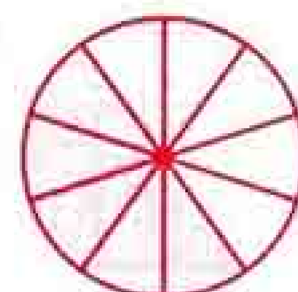
$\frac{3}{8}$ it is read as (three eighths)

4 parts of 9 equal parts



$\frac{4}{9}$ it is read as (four ninths)

7 parts of 10 equal parts

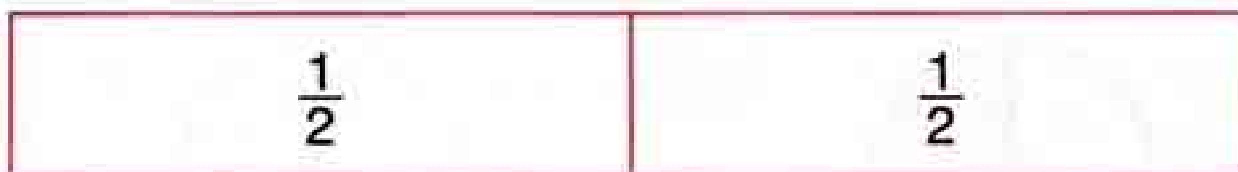


$\frac{7}{10}$ it is read as (seven tenths)

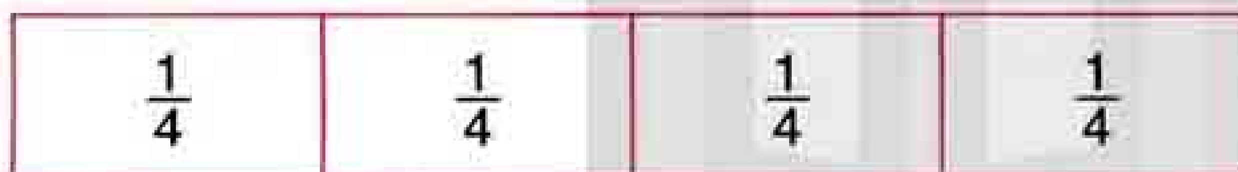
Unit 3

Notice that :

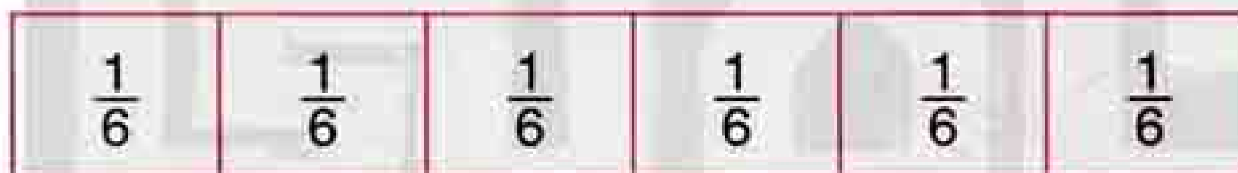

1 whole


1 whole = 2 halves $\left(\frac{2}{2}\right)$

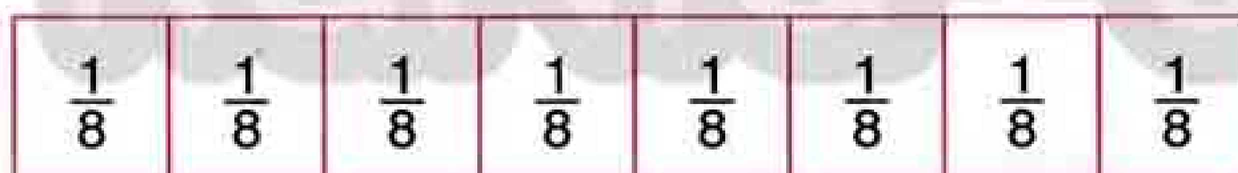

1 whole = 3 thirds $\left(\frac{3}{3}\right)$


1 whole = 4 quarters $\left(\frac{4}{4}\right)$

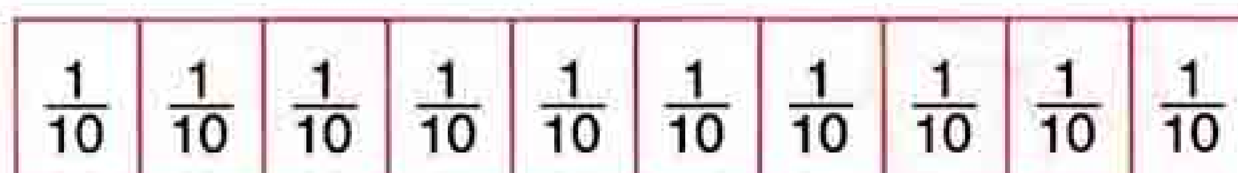

1 whole = 5 fifths $\left(\frac{5}{5}\right)$


1 whole = 6 sixths $\left(\frac{6}{6}\right)$


1 whole = 7 sevenths $\left(\frac{7}{7}\right)$


1 whole = 8 eighths $\left(\frac{8}{8}\right)$


1 whole = 9 ninths $\left(\frac{9}{9}\right)$


1 whole = 10 tenths $\left(\frac{10}{10}\right)$

$$1 = \frac{2}{2} = \frac{3}{3} = \frac{4}{4} = \frac{5}{5} = \frac{6}{6} = \frac{7}{7} = \frac{8}{8} = \frac{9}{9} = \frac{10}{10} = \cdots$$

Exercise 9

From the school book

1 Colour according to the fraction :

(a) $\frac{1}{2}$ (b) $\frac{1}{3}$ (c) $\frac{1}{4}$ (d) $\frac{1}{5}$

(e) $\frac{1}{6}$ (f) $\frac{1}{8}$ (g) $\frac{1}{9}$ (h) $\frac{1}{12}$

2 Colour according to the fraction :

(a) $\frac{2}{3}$ (b) $\frac{3}{4}$ (c) $\frac{3}{5}$ (d) $\frac{4}{6}$

(e) $\frac{3}{7}$ (f) $\frac{5}{8}$ (g) $\frac{4}{6}$ (h) $\frac{4}{12}$

3 Write the fraction according to the coloured part :

(a) (b) (c) (d)

(e) (f) (g) (h)

(i) (j) (k) (l)

(m) (n) (o) (p)



4 Join :

$\frac{1}{5}$ →	One third
$\frac{3}{5}$	**One fifth**
$\frac{1}{3}$	Four fifths
$\frac{3}{4}$	Three fifths
$\frac{4}{5}$	Three fourths

5 Write the following fractions :

ⓐ 📖 A half = ……

ⓑ 📖 Two thirds = ……

ⓒ A quarter = ……

ⓓ 📖 Four ninths = ……

ⓔ 📖 One eighth = ……

ⓕ Five eighths = ……

ⓖ 📖 Five sixths = ……

ⓗ 📖 Seven eighths = ……

ⓘ 📖 Four sevenths = ……

ⓙ Five fifths = ……

ⓚ Three tenths = ……

ⓛ Six elevenths = ……

6 Write each fraction in words :

ⓐ $\frac{1}{3}$ = ……………

ⓑ $\frac{1}{6}$ = ……………

ⓒ $\frac{1}{8}$ = ……………

ⓓ $\frac{1}{4}$ = ……………

ⓔ $\frac{5}{9}$ = ……………

ⓕ $\frac{3}{7}$ = ……………

ⓖ $\frac{2}{5}$ = ……………

ⓗ $\frac{7}{10}$ = ……………

ⓘ $\frac{5}{11}$ = ……………

ⓙ $\frac{7}{12}$ = ……………

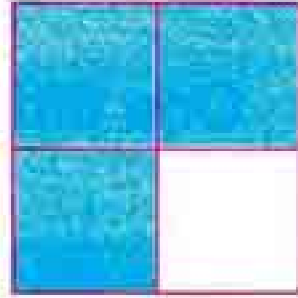
ⓚ $\frac{1}{13}$ = ……………

ⓛ $\frac{4}{15}$ = ……………

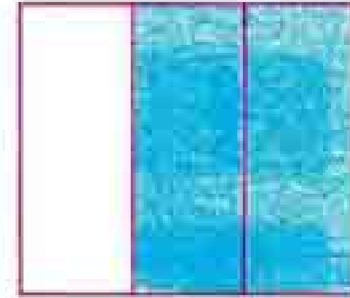
7 Complete as in the example :



EXAMPLE :



$\frac{3}{4}$ = Three quarters



$\frac{2}{3}$ = Two thirds

ⓐ $\frac{\dots}{\dots}$ = ...

ⓑ $\frac{\dots}{\dots}$ = ...

ⓒ $\frac{\dots}{\dots}$ = ...

ⓓ $\frac{\dots}{\dots}$ = ...

8 Complete following the example :



EXAMPLE :

$\frac{1}{2}$ numerator is 1 and denominator is 2

ⓐ $\frac{1}{3}$ numerator is .... and denominator is ....

ⓑ $\frac{3}{4}$ numerator is .... and denominator is ....



ⓒ $\frac{5}{6}$ numerator is .... and denominator is ....

ⓓ $\frac{4}{9}$ numerator is .... and denominator is ....

ⓔ $\frac{2}{11}$ numerator is .... and denominator is ....

9 Complete the following table :

Numerator	Denominator	The fraction is	Read as
1	**5**	$\frac{1}{5}$	**One fifth**
2	3	....	....
4	7	....	....
....	....	$\frac{5}{6}$	....
....	....	$\frac{3}{10}$	....
....	....	....	Three eighths
....	....	....	Two ninths

10 Complete :

$$1 = \frac{\dots}{5} = \frac{3}{\dots} = \frac{\dots}{4} = \frac{7}{\dots} = \frac{\dots}{6} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$$

11 How many ?

ⓐ How many halves in the whole one ? ....

ⓑ How many thirds in the whole one ? ....

(c) How many quarters (fourths) in the whole one ? ....

(d) How many fifths in the whole one ? ....

(e) How many ninths in the whole one ? ....

(f) How many elevenths in the whole one ? ....

Think And Answer

(a) On a tree , there are 8 birds. If the quarter of these birds fly. How many birds do fly ?

....

(b) I am a fraction. My denominator is 7 and my numerator is less than my denominator by 1

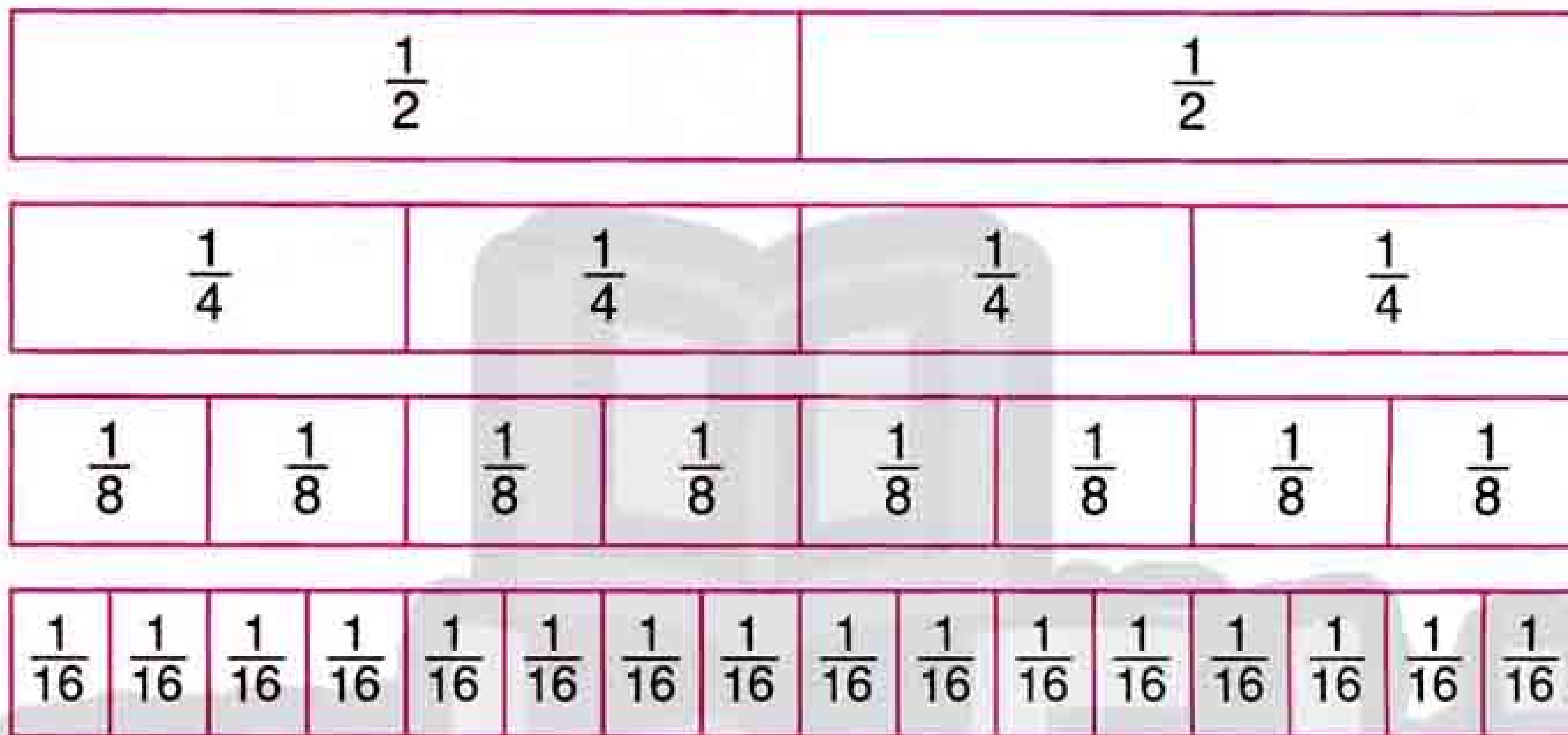
Who am I ?

I am ....



Unit 3 LESSON 2

Equal fractions



- **From the figure above , we notice that :**

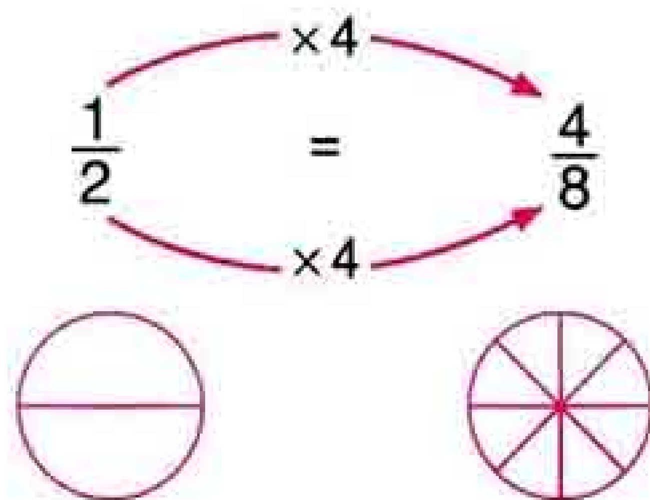
$$\frac{1}{2} = \frac{2}{4} = \frac{4}{8} = \frac{8}{16}$$

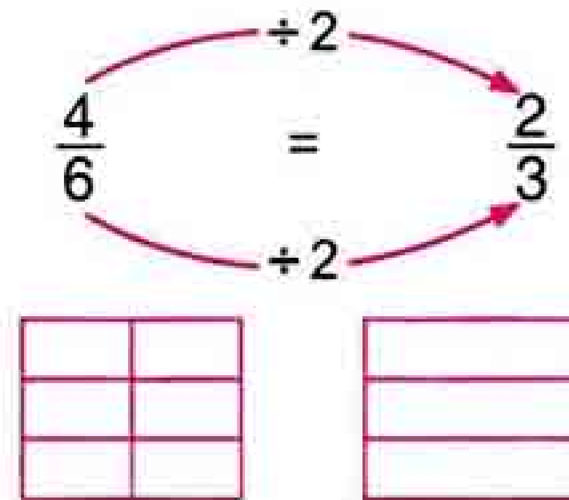


Rule :

To get a fraction equal to a given fraction , you can multiply (or divide) both of the numerator and the denominator by the same number. (other than zero)

For Example :





Unit 3

Simplifying fractions

Rule :

To reduce (simplify) a fraction to its simplest form ، we divide each of the numerator and denominator by the greatest possible common number.

For Example :

$$\frac{4}{12} \xrightarrow{\div 4} = \frac{1}{3} \qquad \frac{18}{27} \xrightarrow{\div 9} = \frac{2}{3}$$



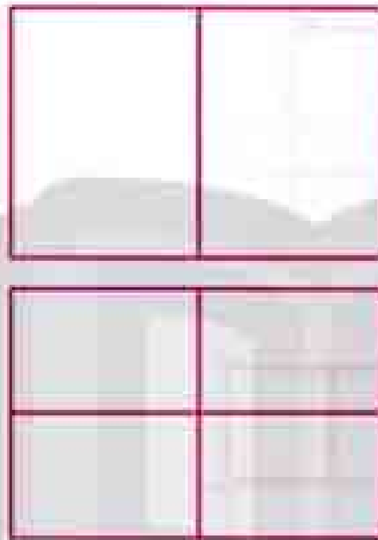
Exercise 10

From the school book

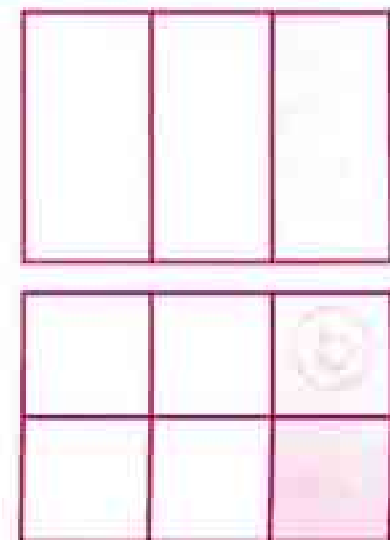
First Problems on equal fractions

1 Complete each of the following with the help of the following figures :

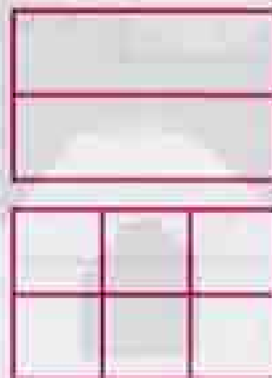
ⓐ $\frac{1}{2} = \frac{\dots}{4}$



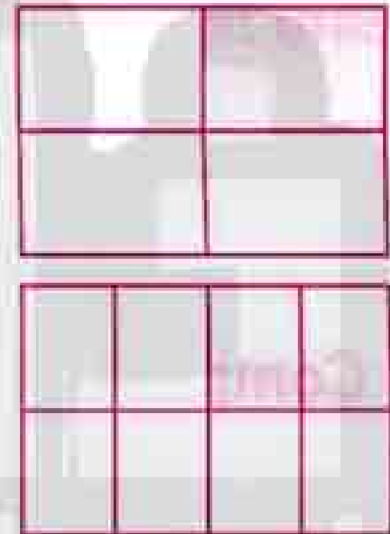
ⓑ $\frac{1}{3} = \frac{\dots}{\dots}$



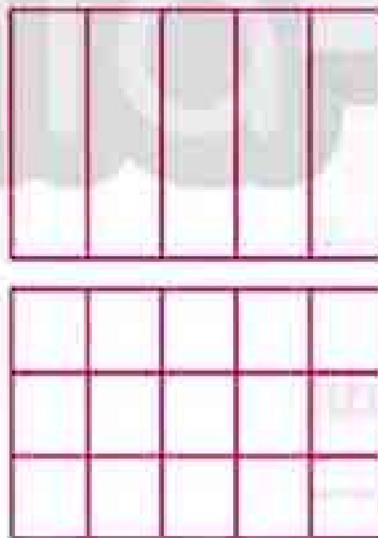
ⓒ $\frac{\dots}{\dots} = \frac{3}{\dots}$



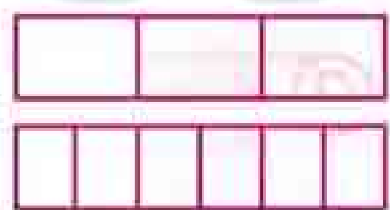
ⓓ $\frac{1}{4} = \frac{\dots}{\dots}$



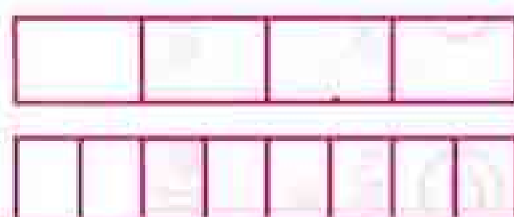
ⓔ $\frac{1}{5} = \frac{\dots}{\dots}$



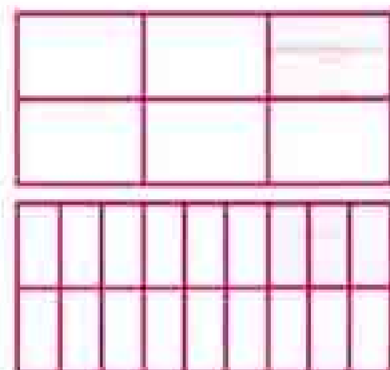
ⓕ $\frac{2}{3} = \frac{\dots}{6}$



ⓖ $\frac{3}{4} = \frac{6}{\dots}$

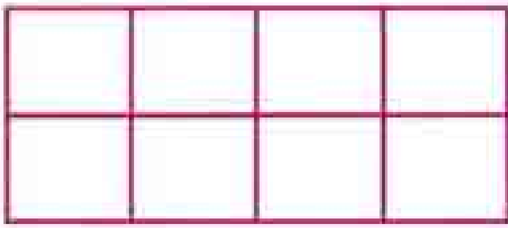


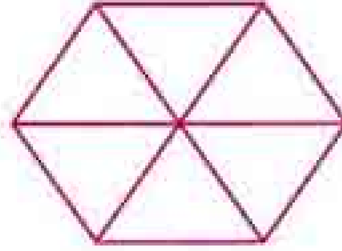
ⓗ $\frac{1}{\dots} = \frac{\dots}{\dots}$

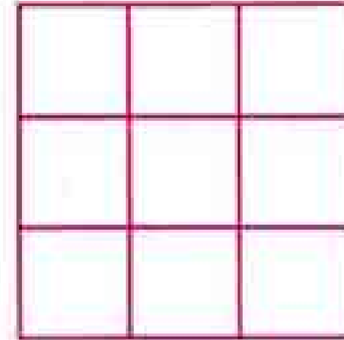


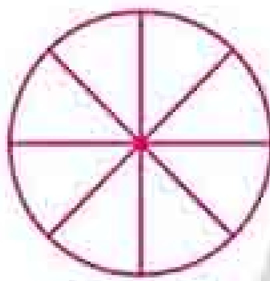
Unit 3

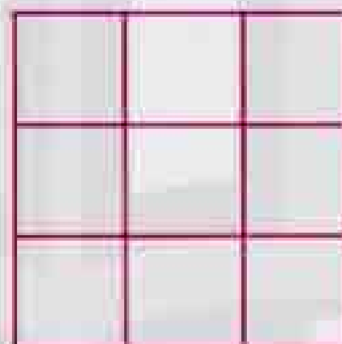
2 Colour according to the fraction , then write a fraction equals the given one :

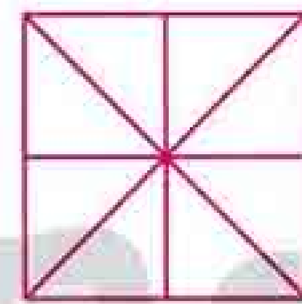
ⓐ

$\frac{1}{2} = \frac{\dots}{\dots}$

ⓑ

$\frac{1}{2} = \frac{\dots}{\dots}$

ⓒ

$\frac{1}{3} = \frac{\dots}{\dots}$

ⓓ

$\frac{1}{4} = \frac{\dots}{\dots}$

ⓔ

$\frac{2}{3} = \frac{\dots}{\dots}$

ⓕ

$\frac{3}{4} = \frac{\dots}{\dots}$

3 Complete the missing terms :

ⓐ $\frac{1}{2} = \frac{\dots}{6}$ ⓑ $\frac{2}{3} = \frac{\dots}{12}$ ⓒ $\frac{3}{5} = \frac{\dots}{10}$

ⓓ $\frac{2}{9} = \frac{\dots}{18}$ ⓔ $\frac{5}{8} = \frac{20}{\dots}$ ⓕ $\frac{2}{7} = \frac{12}{\dots}$

ⓖ $\frac{3}{4} = \frac{\dots}{20}$ ⓗ $\frac{5}{6} = \frac{30}{\dots}$ ⓘ $\frac{3}{9} = \frac{\dots}{27}$

ⓙ $\frac{2}{4} = \frac{10}{\dots}$ ⓚ $\frac{4}{6} = \frac{16}{\dots}$ ⓛ $\frac{3}{3} = \frac{\dots}{7}$

4 Complete the missing terms :

ⓐ $\frac{1}{2} = \frac{\dots}{8} = \frac{6}{\dots}$ ⓑ $\frac{1}{3} = \frac{\dots}{6} = \frac{5}{\dots}$

ⓒ $\frac{2}{5} = \frac{\dots}{15} = \frac{8}{\dots}$ ⓓ $\frac{3}{7} = \frac{9}{\dots} = \frac{\dots}{35}$

ⓔ $\frac{2}{3} = \frac{10}{\dots} = \frac{\dots}{9}$

ⓕ $\frac{5}{6} = \frac{50}{\dots} = \frac{\dots}{30}$

ⓖ $\frac{3}{4} = \frac{18}{\dots} = \frac{\dots}{32}$

ⓗ $\frac{7}{8} = \frac{14}{\dots} = \frac{\dots}{56}$

ⓘ $\frac{4}{9} = \frac{\dots}{36} = \frac{\dots}{54}$

ⓙ $\frac{3}{8} = \frac{15}{\dots} = \frac{27}{\dots}$

ⓚ $\frac{4}{4} = \frac{8}{\dots} = \frac{20}{\dots}$

ⓛ $1 = \frac{5}{\dots} = \frac{\dots}{4} = \frac{7}{\dots}$

ⓜ $\frac{1}{2} = \frac{3}{6} = \frac{5}{10} = \frac{\dots}{12} = \frac{\dots}{14} = \frac{8}{\dots} = \frac{10}{\dots} = \frac{\dots}{\dots}$

5 In each of the following , write an equal fraction to the given one :

ⓐ $\frac{1}{5} = \frac{\dots}{\dots}$

ⓑ $\frac{1}{9} = \frac{\dots}{\dots}$

ⓒ $\frac{3}{4} = \frac{\dots}{\dots}$

ⓓ $\frac{2}{7} = \frac{\dots}{\dots}$

ⓔ $\frac{5}{8} = \frac{\dots}{\dots}$

ⓕ $\frac{4}{9} = \frac{\dots}{\dots}$

ⓖ $\frac{6}{7} = \frac{\dots}{\dots}$

ⓗ $\frac{3}{8} = \frac{\dots}{\dots}$

ⓘ $\frac{3}{10} = \frac{\dots}{\dots}$

ⓙ $\frac{6}{11} = \frac{\dots}{\dots}$

ⓚ $\frac{7}{12} = \frac{\dots}{\dots}$

ⓛ $\frac{9}{11} = \frac{\dots}{\dots}$

6 Complete each of the following :

ⓐ $\frac{1}{3} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

ⓑ $\frac{2}{5} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

ⓒ $\frac{5}{9} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

ⓓ $\frac{3}{11} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

ⓔ $\frac{4}{7} = \frac{\dots}{\dots} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

ⓕ $\frac{8}{9} = \frac{\dots}{\dots} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

7 Choose the correct answer :

ⓐ $\frac{4}{5} = \frac{\dots\dots}{10}$ (4 or 6 or 8)

ⓑ $\frac{2}{7} = \frac{18}{\dots\dots}$ (9 or 14 or 63)

ⓒ $\frac{\dots\dots}{24} = \frac{3}{8}$ (6 or 9 or 12)

ⓓ $\frac{8}{\dots\dots} = \frac{2}{9}$ (4 or 15 or 36)

ⓔ $\frac{2}{3} = \frac{\dots\dots}{\dots\dots}$ ($\frac{6}{9}$ or $\frac{9}{11}$ or $\frac{9}{15}$)

ⓕ $\frac{1}{2} = \frac{\dots\dots}{\dots\dots}$ ($\frac{3}{6}$ or $\frac{3}{9}$ or $\frac{3}{12}$)

ⓖ $\frac{1}{3} = \frac{\dots\dots}{\dots\dots}$ ($\frac{7}{10}$ or $\frac{9}{10}$ or $\frac{5}{15}$)

Second Problems on simplifying fractions

8 Complete each of the following :

ⓐ $\frac{3}{6} = \frac{\dots\dots}{\dots\dots}$ (÷3 above, ÷3 below)

ⓑ $\frac{5}{10} = \frac{\dots\dots}{\dots\dots}$ (÷5 above, ÷5 below)

ⓒ $\frac{4}{12} = \frac{\dots\dots}{\dots\dots}$ (÷4 above, ÷4 below)

ⓓ $\frac{6}{8} = \frac{3}{\dots\dots}$ (÷..... above, ÷..... below)

(e) $\frac{5}{25} = \frac{1}{\dots}$ (÷ ..... / ÷ .....)

(f) $\frac{6}{9} = \frac{2}{\dots}$ (÷ ..... / ÷ .....)

(g) 📖 $\frac{7}{21} = \frac{1}{\dots}$ (÷ ..... / ÷ .....)

(h) $\frac{14}{21} = \frac{\dots}{3}$ (÷ ..... / ÷ .....)

(i) $\frac{40}{45} = \frac{\dots}{9}$ (÷ ..... / ÷ .....)

(j) $\frac{20}{30} = \frac{2}{\dots}$ (÷ ..... / ÷ .....)

9 Complete the missing terms :

(a) $\frac{5}{10} = \frac{\dots}{2}$	(b) $\frac{6}{8} = \frac{\dots}{4}$	(c) 📖 $\frac{15}{25} = \frac{\dots}{5}$
(d) $\frac{16}{20} = \frac{\dots}{10}$	(e) 📖 $\frac{9}{27} = \frac{1}{\dots}$	(f) 📖 $\frac{7}{70} = \frac{1}{\dots}$
(g) $\frac{18}{27} = \frac{2}{\dots}$	(h) $\frac{30}{36} = \frac{5}{\dots}$	(i) 📖 $\frac{12}{18} = \frac{2}{\dots}$
(j) $\frac{24}{48} = \frac{6}{\dots} = \frac{\dots}{2}$	(k) $\frac{4}{10} = \frac{2}{\dots} = \frac{\dots}{15}$	(l) $\frac{2}{\dots} = \frac{10}{15} = \frac{6}{\dots}$

10 Simplify each fraction to its simplest form :

ⓐ $\frac{4}{12} = \frac{\cdots}{\cdots}$ ⓑ $\frac{6}{10} = \frac{\cdots}{\cdots}$ ⓒ $\frac{3}{30} = \frac{\cdots}{\cdots}$

ⓓ $\frac{12}{14} = \frac{\cdots}{\cdots}$ ⓔ $\frac{6}{21} = \frac{\cdots}{\cdots}$ ⓕ $\frac{10}{100} = \frac{\cdots}{\cdots}$

ⓖ $\frac{18}{30} = \frac{\cdots}{\cdots}$ ⓗ $\frac{16}{20} = \frac{\cdots}{\cdots}$ ⓘ $\frac{35}{45} = \frac{\cdots}{\cdots}$

ⓙ $\frac{28}{49} = \frac{\cdots}{\cdots}$ ⓚ $\frac{21}{27} = \frac{\cdots}{\cdots}$ ⓛ $\frac{8}{44} = \frac{\cdots}{\cdots}$

ⓜ $\frac{36}{66} = \frac{\cdots}{\cdots}$ ⓝ $\frac{100}{180} = \frac{\cdots}{\cdots}$ ⓞ $\frac{120}{180} = \frac{\cdots}{\cdots}$

11 Underline the correct answer :

ⓐ $\frac{14}{21} = \frac{2}{\cdots}$ (2 or 3 or 7)

ⓑ $\frac{15}{20} = \cdots$ ($\frac{3}{4}$ or $\frac{1}{2}$ or $\frac{3}{5}$ or $\frac{2}{5}$)

ⓒ $\frac{24}{30} = \cdots$ ($\frac{3}{5}$ or $\frac{4}{6}$ or $\frac{3}{6}$ or $\frac{4}{5}$)

ⓓ $\frac{16}{24} = \cdots$ ($\frac{2}{3}$ or $\frac{3}{4}$ or $\frac{1}{2}$ or $\frac{2}{8}$)

ⓔ $\frac{12}{48} = \cdots$ ($\frac{2}{6}$ or $\frac{2}{3}$ or $\frac{6}{8}$ or $\frac{1}{4}$)

ⓕ The fraction that represents the coloured parts in the shape is ……… ($\frac{2}{3}$ or $\frac{2}{4}$ or $\frac{1}{3}$)

12 **Join the equal fractions :**

$\frac{1}{2}$ $\frac{5}{10}$	$\frac{24}{30}$
$\frac{3}{9}$	$\frac{6}{9}$
$\frac{16}{20}$	$\frac{3}{6}$ $\frac{1}{2}$
$\frac{10}{16}$	$\frac{10}{30}$
$\frac{8}{12}$	$\frac{15}{24}$

13 **Match the equal fractions :**

$\frac{3}{4}$	$\frac{1}{2}$	$\frac{14}{21}$	$\frac{4}{14}$
$\frac{7}{14}$	$\frac{15}{20}$	$\frac{2}{7}$	$\frac{2}{3}$

14 **Show that every two fractions are equal as in the example :**



EXAMPLE :

$\frac{3}{12}$, $\frac{5}{20}$ **Since** $\frac{3}{12} = \frac{1}{4}$ **and** $\frac{5}{20} = \frac{1}{4}$ **, so** $\frac{3}{12} = \frac{5}{20}$

ⓐ $\frac{4}{8}$, $\frac{5}{10}$ Since $\frac{4}{8}$ = ... and $\frac{5}{10}$ = ... , so $\frac{4}{8} = \frac{.........}{10}$

ⓑ $\frac{12}{18}$, $\frac{14}{21}$ Since $\frac{12}{18}$ = ... and $\frac{14}{21}$ = ... , so .... = ...

ⓒ $\frac{25}{35}$, $\frac{45}{63}$ Since $\frac{25}{35}$ = ... and $\frac{45}{63}$ = ... , so .... = ...

ⓓ $\frac{10}{40}$, $\frac{16}{64}$ Since $\frac{10}{40}$ = ... and $\frac{16}{64}$ = ... = ... , so .... = ...

15 Who am I ?

ⓐ I am a fraction of numerator 3 and is equal to $\frac{18}{24}$

$\frac{18}{24} = \frac{3}{\cdots}$ So I am ....

ⓑ I am a fraction of denominator 4 and is equal to $\frac{21}{28}$

$\frac{21}{28} = \frac{\cdots}{4}$ So I am ....

ⓒ I am a fraction equal to $\frac{12}{16}$ in its simplest form

$\frac{12}{16} = \frac{\cdots}{\cdots}$ So I am ....

ⓓ I am a fraction equal to $\frac{30}{50}$ and my denominator is 40

$\frac{30}{50} = \frac{\cdots}{5} = \frac{\cdots}{40}$ So I am ....

Think And Answer

a How many eighths are equal to one fourth ?

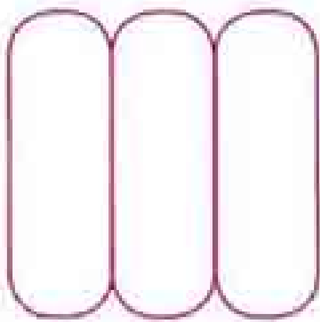
....

b How many sixths are equal to one third ?

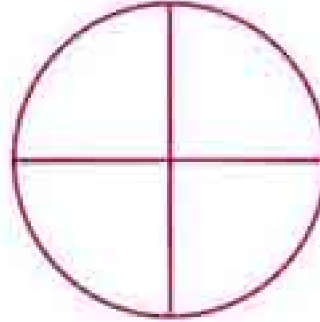
....

c In each of the following , colour according to the given fraction :

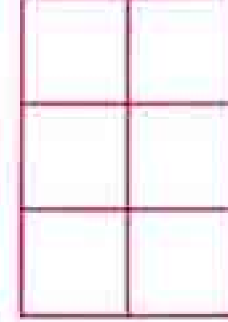
① $\frac{18}{27}$



② $\frac{36}{48}$



③ $\frac{100}{120}$



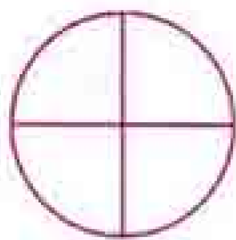
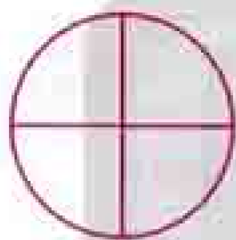
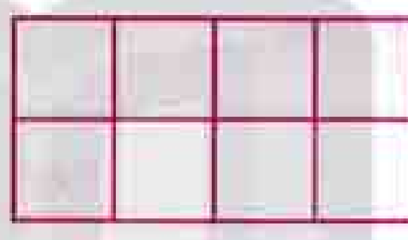
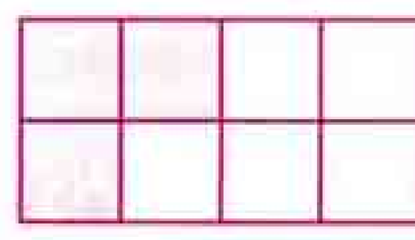


Unit 3 LESSON 3

Comparing and ordering fractions

First Comparing fractions

Observe :

$\frac{1}{4} < \frac{3}{4}$ $\frac{5}{8} > \frac{3}{8}$

- **From the previous figures , we can deduce the following rule :**

Rule :

To compare between any two fractions having the same denominator , compare between their numerators , where the fraction with the greater numerator is the greater.

For Example :

ⓐ $\frac{3}{6} < \frac{4}{6}$

because $\frac{3}{6}$ and $\frac{4}{6}$ are two fractions having the same denominator 6 and 3 < 4

ⓑ $\frac{6}{7} > \frac{5}{7}$

because $\frac{6}{7}$ and $\frac{5}{7}$ are two fractions having the same denominator 7 and 6 > 5

Unit 3

Remarks :

$\frac{1}{2}$				
$\frac{1}{3}$				
$\frac{1}{4}$				
$\frac{1}{5}$				

① **Notice the opposite figure :**

$\frac{1}{2} > \frac{1}{3} > \frac{1}{4} > \frac{1}{5} > ....$

For Example :

$\frac{1}{6} > \frac{1}{8}$, $\frac{1}{7} < \frac{1}{5}$

---

② **Remember that : 1 = $\frac{2}{2} = \frac{3}{3} = \frac{4}{4} = ...$**

So , $1 > \frac{1}{2}$ (because : $\frac{2}{2} > \frac{1}{2}$)

$1 > \frac{3}{5}$ (because : $\frac{5}{5} > \frac{3}{5}$) and so on

---

③ Sometimes you need to put the fractions in its simplest form to facilitate comparing them.

For Example : Compare $\frac{2}{8}$ and $\frac{3}{4}$

Since : $\frac{2}{8} = \frac{1}{4}$ (÷ 2) and $\frac{1}{4} < \frac{3}{4}$

Then : $\frac{2}{8} < \frac{3}{4}$

Second Ordering fractions

Ascending order :

Ascending order is ordering the numbers from the smallest to the greatest.

For Example :

The fractions $\frac{2}{7}$, $\frac{3}{7}$, $\frac{5}{7}$ and $\frac{6}{7}$ are in an ascending order.

Descending order :

Descending order is ordering the numbers from the greatest to the smallest.

For Example :

The fractions $\frac{7}{9}$, $\frac{5}{9}$, $\frac{4}{9}$ and $\frac{2}{9}$ are in a descending order.

Example 1

Arrange the following fractions in a descending order :

ⓐ $\frac{3}{10}$, $\frac{7}{10}$, $\frac{1}{10}$, $\frac{5}{10}$

ⓑ $\frac{2}{8}$, $\frac{7}{8}$, 1 , $\frac{5}{8}$

Solution

ⓐ **The descending order is :** $\frac{7}{10}$, $\frac{5}{10}$, $\frac{3}{10}$, $\frac{1}{10}$

ⓑ **The descending order is :** 1 , $\frac{7}{8}$, $\frac{5}{8}$, $\frac{2}{8}$

(Note that : $1 = \frac{8}{8}$)

Example 2

Arrange the following fractions in an ascending order :

ⓐ $\frac{1}{5}$, $\frac{1}{8}$, $\frac{1}{3}$, $\frac{1}{6}$

ⓑ $\frac{3}{6}$, $\frac{1}{6}$, $\frac{20}{24}$, $\frac{4}{6}$

ⓒ $\frac{7}{8}$, $\frac{3}{8}$, $\frac{3}{4}$, $\frac{5}{8}$

Solution

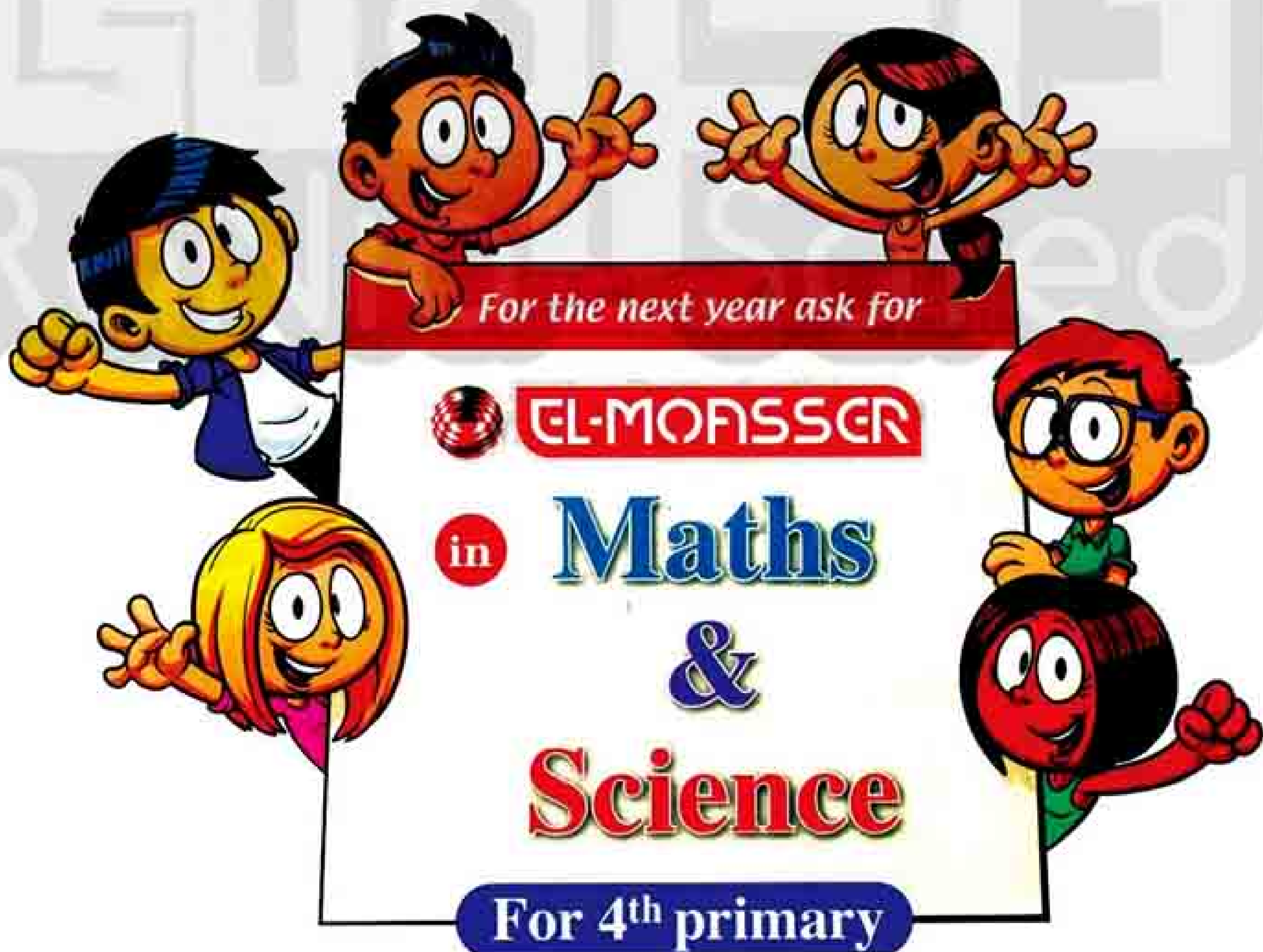
ⓐ **The ascending order is :** $\frac{1}{8}$, $\frac{1}{6}$, $\frac{1}{5}$, $\frac{1}{3}$

ⓑ ***Since :*** $\frac{20}{24} = \frac{5}{6}$ (÷4 , ÷4)

Then the ascending order is : $\frac{1}{6}$, $\frac{3}{6}$, $\frac{4}{6}$, $\frac{20}{24}$

ⓒ ***Since :*** $\frac{3}{4} = \frac{6}{8}$ (×2 , ×2)

Then the ascending order is : $\frac{3}{8}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$

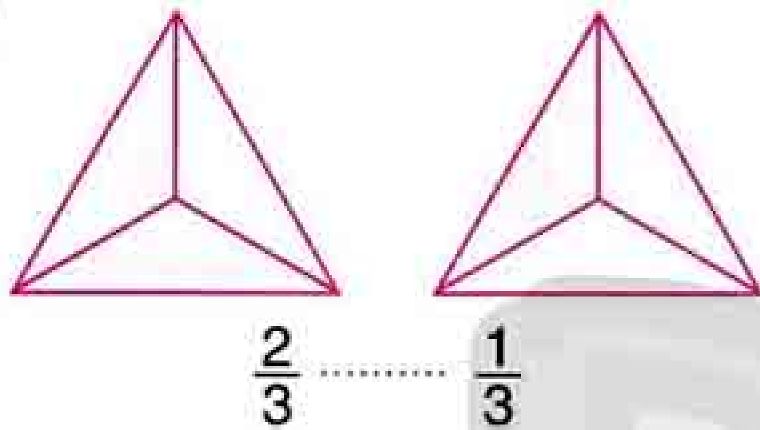


Exercise 11

From the school book

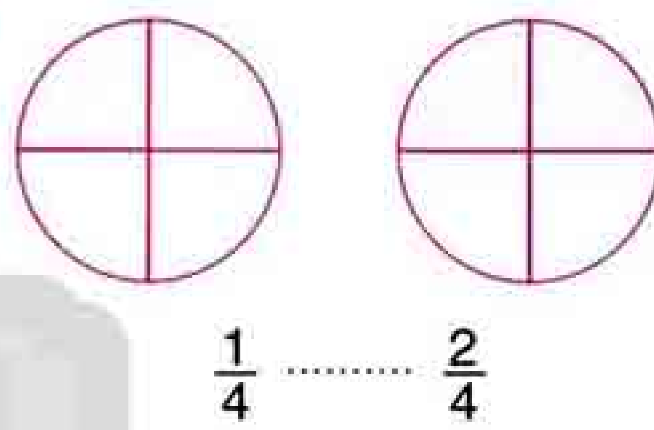
1 Complete using (< , = or >) :

ⓐ



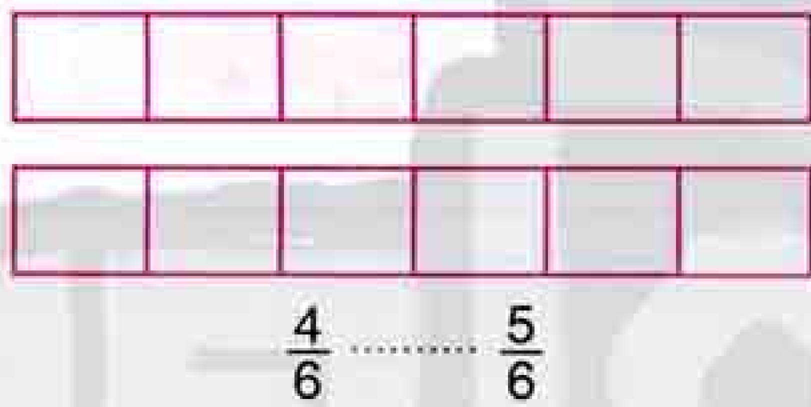
$\frac{2}{3}$ .... $\frac{1}{3}$

ⓑ



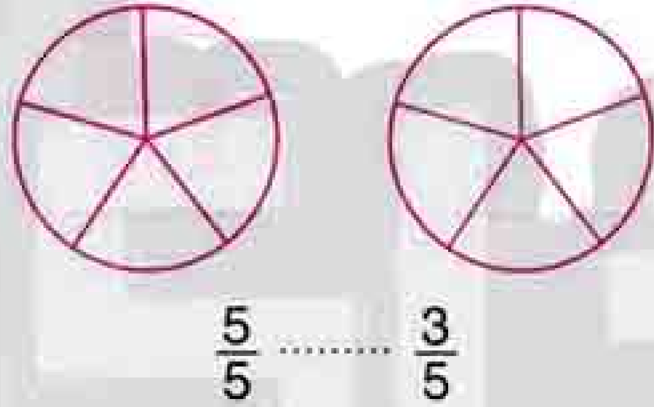
$\frac{1}{4}$ .... $\frac{2}{4}$

ⓒ



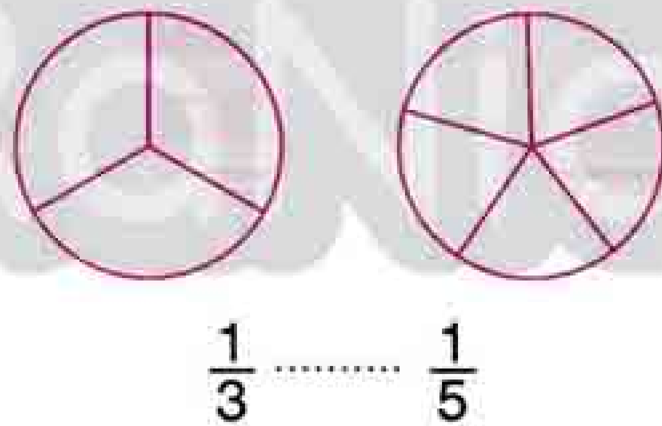
$\frac{4}{6}$ .... $\frac{5}{6}$

ⓓ



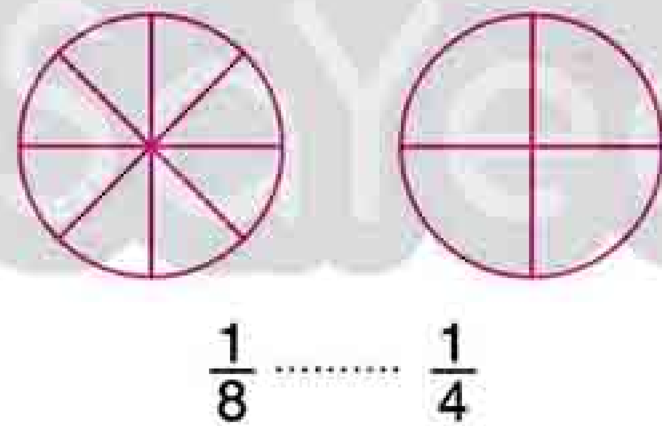
$\frac{5}{5}$ .... $\frac{3}{5}$

ⓔ



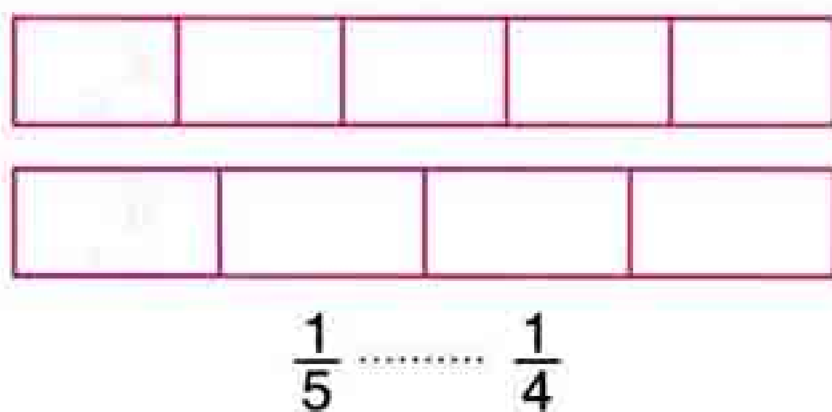
$\frac{1}{3}$ .... $\frac{1}{5}$

ⓕ



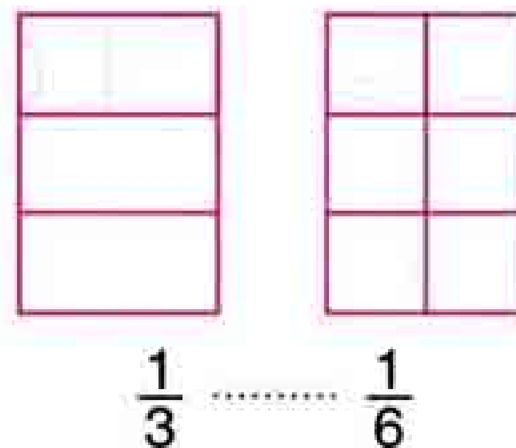
$\frac{1}{8}$ .... $\frac{1}{4}$

ⓖ



$\frac{1}{5}$ .... $\frac{1}{4}$

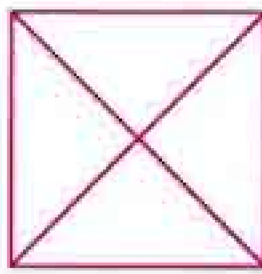
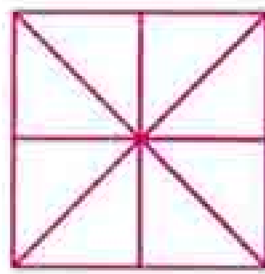
ⓗ



$\frac{1}{3}$ .... $\frac{1}{6}$

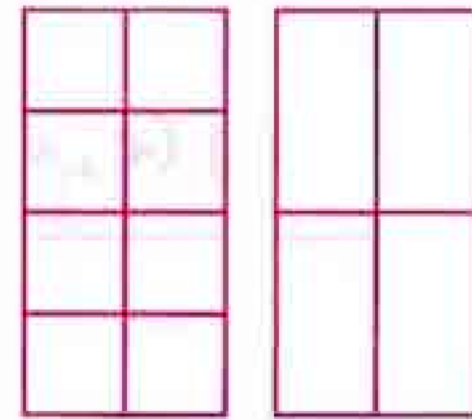
Unit 3

(i)

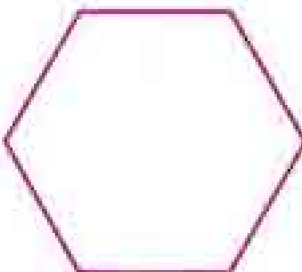
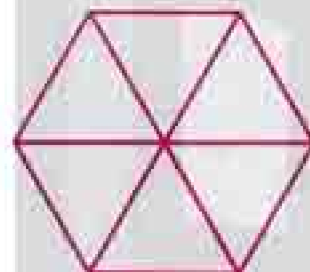
$\frac{1}{4}$ .... $\frac{2}{8}$

(j)



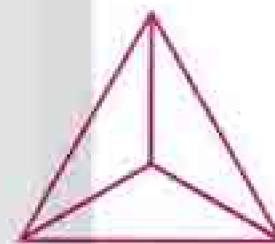
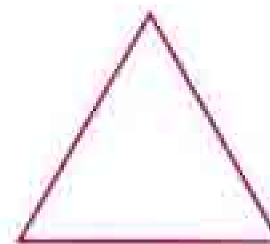
$\frac{6}{8}$ .... $\frac{1}{4}$

(k)

1 .... $\frac{4}{6}$

(l)

$\frac{3}{3}$ 1

2 **Complete each of the following using (< , = or >) as in the example :**



Example :

- $\frac{3}{7}$ > $\frac{1}{7}$
- $\frac{1}{4}$ < $\frac{1}{3}$
- $\frac{1}{2}$ = $\frac{5}{10}$

(a) $\frac{1}{5}$ .... $\frac{2}{5}$	(b) $\frac{3}{6}$ .... $\frac{5}{6}$	(c) $\frac{3}{4}$ .... $\frac{1}{4}$
(d) $\frac{7}{8}$ .... $\frac{5}{8}$	(e) $\frac{3}{10}$ .... $\frac{1}{10}$	(f) $\frac{7}{12}$ .... $\frac{11}{12}$
(g) $\frac{9}{11}$ .... $\frac{7}{11}$	(h) $\frac{7}{7}$ .... $\frac{6}{7}$	(i) $\frac{3}{8}$ .... $\frac{2}{8}$
(j) $\frac{1}{6}$ .... $\frac{1}{3}$	(k) $\frac{1}{2}$ .... $\frac{1}{4}$	(l) $\frac{4}{5}$ .... $\frac{4}{4}$
(m) $\frac{1}{2}$ .... $\frac{1}{3}$	(n) $\frac{1}{2}$ .... $\frac{7}{10}$	(o) $\frac{1}{3}$ .... $\frac{4}{6}$
(p) $\frac{3}{3}$ 1	(q) $\frac{4}{5}$ 1	(r) $\frac{2}{5}$ .... $\frac{3}{3}$
(s) 1 .... $\frac{6}{6}$	(t) $\frac{5}{5}$ .... $\frac{2}{2}$	(u) $\frac{5}{7}$ .... $\frac{15}{21}$

3 **Circle the greatest fraction as in the example :**



EXAMPLE :

- $\frac{1}{5}$, $\frac{3}{5}$, ($\frac{4}{5}$) , $\frac{2}{5}$
- $\frac{1}{3}$, $\frac{1}{5}$, ($\frac{1}{2}$) , $\frac{1}{4}$
- $\frac{3}{6}$, ($\frac{5}{6}$) , $\frac{2}{12}$, $\frac{2}{6}$ ($\frac{1}{6}$)



ⓐ $\frac{2}{6}$, $\frac{5}{6}$, $\frac{4}{6}$, $\frac{3}{6}$

ⓑ $\frac{5}{7}$, $\frac{2}{7}$, $\frac{6}{7}$, $\frac{3}{7}$

ⓒ $\frac{2}{9}$, $\frac{7}{9}$, $\frac{4}{9}$, $\frac{9}{9}$

ⓓ $\frac{5}{11}$, $\frac{2}{11}$, $\frac{7}{11}$, $\frac{4}{11}$

ⓔ $\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{3}$

ⓕ $\frac{4}{5}$, $\frac{2}{5}$, $\frac{1}{5}$, $\frac{6}{10}$

ⓖ $\frac{3}{8}$, $\frac{1}{4}$, $\frac{7}{8}$, $\frac{4}{8}$

ⓗ $\frac{2}{7}$, $\frac{3}{7}$, $\frac{1}{7}$, 1

ⓘ $\frac{1}{6}$, $\frac{1}{5}$, $\frac{1}{7}$, 1

ⓙ $\frac{2}{5}$, $\frac{2}{3}$, $\frac{2}{7}$, $\frac{2}{9}$

4 **Arrange each of the following in an ascending order as in the example :**



EXAMPLE :

- $\frac{1}{7}$, $\frac{5}{7}$, $\frac{3}{7}$, $\frac{4}{7}$ — **The order is :** $\frac{1}{7}$, $\frac{3}{7}$, $\frac{4}{7}$ **and** $\frac{5}{7}$
- $\frac{1}{2}$, $\frac{1}{6}$, $\frac{1}{9}$, $\frac{1}{3}$ — **The order is :** $\frac{1}{9}$, $\frac{1}{6}$, $\frac{1}{3}$ **and** $\frac{1}{2}$
- $\frac{3}{6}$, $\frac{2}{6}$, $\frac{5}{6}$, $\frac{2}{3}$ — **The order is :** $\frac{2}{6}$, $\frac{3}{6}$, $\frac{2}{3}$ ($\frac{4}{6}$) **and** $\frac{5}{6}$

ⓐ 📖 $\frac{4}{6}$, $\frac{1}{6}$, $\frac{2}{6}$ — The order is : .... , ... and ....

ⓑ $\frac{9}{10}$, $\frac{3}{10}$, $\frac{5}{10}$, $\frac{2}{10}$ — The order is : .... , ... , ... and ....

ⓒ $\frac{22}{25}$, $\frac{18}{25}$, $\frac{12}{25}$, $\frac{24}{25}$ — The order is : .... , ... , ... and ....

ⓓ $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{7}$, $\frac{1}{5}$ — The order is : .... , ... , ... and ....

ⓔ $\frac{1}{3}$, $\frac{1}{2}$, $\frac{1}{5}$, $\frac{1}{4}$ The order is : .... , ... , ... and ....

ⓕ $\frac{1}{2}$, $\frac{2}{8}$, $\frac{1}{6}$, $\frac{1}{5}$ The order is : .... , ... , ... and ....

ⓖ $\frac{1}{6}$, $\frac{3}{6}$, $\frac{4}{12}$, $\frac{5}{6}$ The order is : .... , ... , ... and ....

ⓗ $\frac{5}{8}$, $\frac{7}{8}$, 1 , $\frac{1}{8}$ The order is : .... , ... , ... and ....

ⓘ $\frac{3}{3}$, $\frac{1}{2}$, $\frac{1}{7}$, $\frac{1}{4}$ The order is : .... , ... , ... and ....

5 Arrange each of the following in a descending order as in the example :



EXAMPLE :

- $\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{8}$, $\frac{5}{8}$ **The order is :** $\frac{7}{8}$, $\frac{5}{8}$, $\frac{3}{8}$ **and** $\frac{1}{8}$
- $\frac{1}{7}$, $\frac{1}{9}$, $\frac{1}{3}$, $\frac{1}{5}$ **The order is :** $\frac{1}{3}$, $\frac{1}{5}$, $\frac{1}{7}$ **and** $\frac{1}{9}$
- $\frac{7}{9}$, $\frac{2}{9}$, $\frac{4}{9}$, 1 **The order is :** 1 , $\frac{7}{9}$, $\frac{4}{9}$ **and** $\frac{2}{9}$

$\frac{9}{9}$

ⓐ $\frac{1}{5}$, $\frac{3}{5}$, $\frac{5}{5}$ The order is : .... , ... and ....

ⓑ $\frac{5}{7}$, $\frac{7}{7}$, $\frac{6}{7}$, $\frac{2}{7}$ The order is : .... , ... , ... and ....

ⓒ $\frac{5}{10}$, $\frac{7}{10}$, $\frac{3}{10}$, $\frac{9}{10}$ The order is : .... , ... , ... and ....

ⓓ $\frac{1}{7}$, $\frac{1}{9}$, $\frac{1}{6}$, $\frac{1}{10}$ The order is : .... , ... , ... and ....

ⓔ $\frac{1}{10}$, $\frac{1}{12}$, $\frac{1}{11}$, $\frac{1}{8}$ The order is : .... , ... , ... and ....

ⓕ $\frac{2}{9}$, $\frac{7}{9}$, $\frac{5}{9}$, 1 The order is : .... , ... , ... and ....

ⓖ $\frac{5}{7}$, $\frac{3}{7}$, $\frac{12}{14}$, $\frac{2}{7}$ The order is : .... , ... , ... and ....

ⓗ $\frac{4}{5}$, $\frac{2}{10}$, $\frac{3}{5}$, 1 The order is : .... , ... , ... and ....

6 Write each of the following :



(a) A fraction greater than $\frac{3}{6}$

(b) A fraction less than $\frac{4}{5}$

(c) A fraction between $\frac{2}{8}$ and $\frac{4}{8}$

(d) Two fractions greater than $\frac{1}{2}$

$\frac{1}{2} = \frac{\dots}{6}$ Therefore , the two fractions are ...... and ......

(e) Two fractions smaller than $\frac{1}{2}$

$\frac{1}{2} = \frac{\dots}{6}$ Therefore , the two fractions are ...... and ......

(f) Three fractions smaller than $\frac{1}{2}$

$\frac{1}{2} = \frac{\dots}{8}$ Therefore , the three fractions are ...... , ... and ......

(g) Two fractions between $\frac{2}{10}$ and $\frac{1}{2}$

$\frac{1}{2} = \frac{\dots}{10}$ Therefore , the two fractions are ...... and ......

7 Write the fractions in their suitable places on the number line as in the example :



EXAMPLE :

$\frac{2}{5}$ and $\frac{4}{5}$

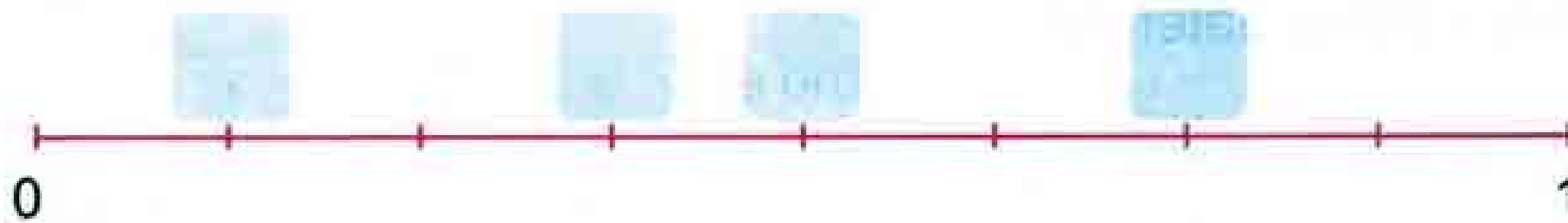


(a) $\frac{2}{6}$, $\frac{5}{6}$ and $\frac{3}{6}$

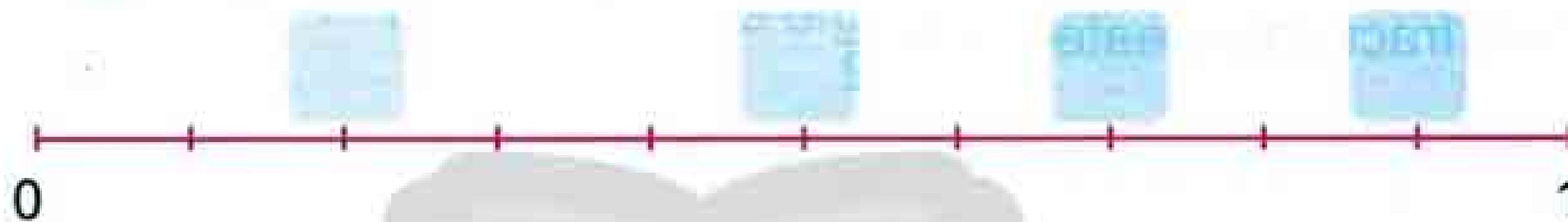


0 1

ⓑ $\frac{6}{8}$, $\frac{4}{8}$, $\frac{1}{8}$ and $\frac{3}{8}$



ⓒ $\frac{5}{10}$, $\frac{2}{10}$, $\frac{7}{10}$ and $\frac{9}{10}$

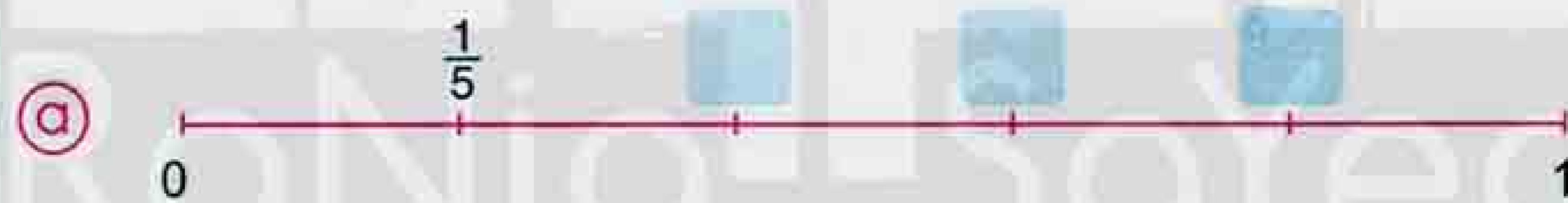


8 **Write suitable fractions in ☐ on the number line as in the example :**





ⓐ

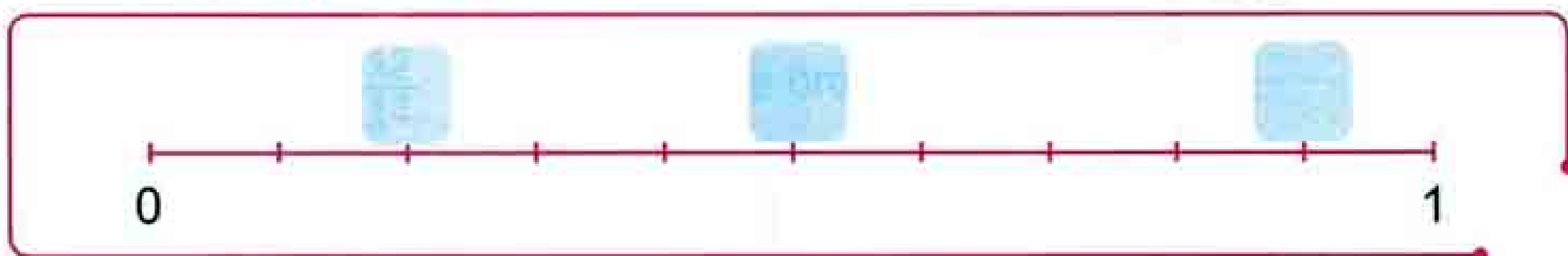


ⓑ



Think And Answer

Write $\frac{1}{2}$, $\frac{1}{5}$ and $\frac{9}{10}$ in their suitable places on the number line :





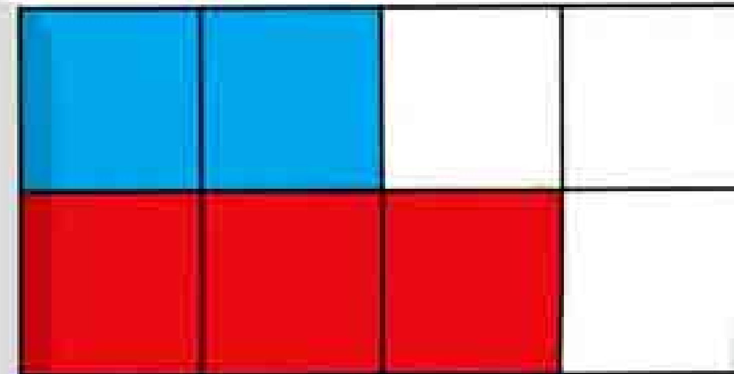
Unit 3 LESSON 4

Adding and subtracting the fractions

First Adding fractions

Preface :

In the opposite figure :



- $\frac{2}{8}$ are coloured in blue
- $\frac{3}{8}$ are coloured in red

Therefore ,

The number of the coloured squares = $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$

Rule :

When you are adding some fractions of the same denominator , add the numerators and use the same denominator.

For Example :

ⓐ $\frac{3}{10} + \frac{4}{10} = \frac{3+4}{10} = \frac{7}{10}$

ⓑ $\frac{4}{15} + \frac{2}{15} + \frac{5}{15} = \frac{4+2+5}{15} = \frac{11}{15}$

Unit 3

Second Subtracting fractions

Preface :

Karim coloured 3 squares in the opposite figure in green ، then he put the sign (×) on two of them.
How many squares are coloured in green and left without the sign (×) ?

×	×	

The number of these squares = $\frac{3}{9} - \frac{2}{9} = \frac{1}{9}$

Rule :

When you are subtracting two fractions of the same denominator ، subtract the numerators and use the same denominator.

For Example :

ⓐ $\frac{5}{7} - \frac{2}{7} = \frac{5-2}{7} = \frac{3}{7}$

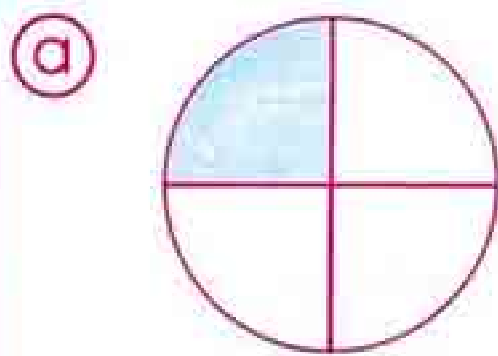
ⓑ $\frac{7}{9} - \frac{5}{9} = \frac{7-5}{9} = \frac{2}{9}$

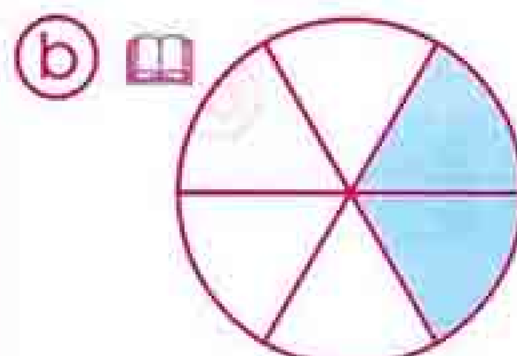


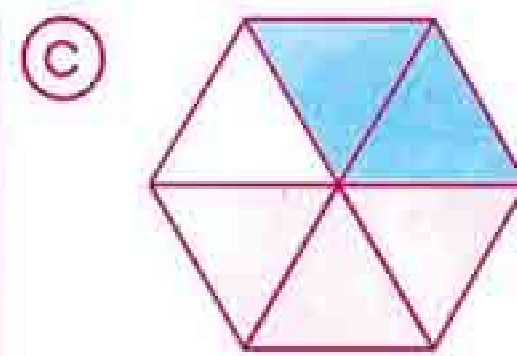
Exercise 12

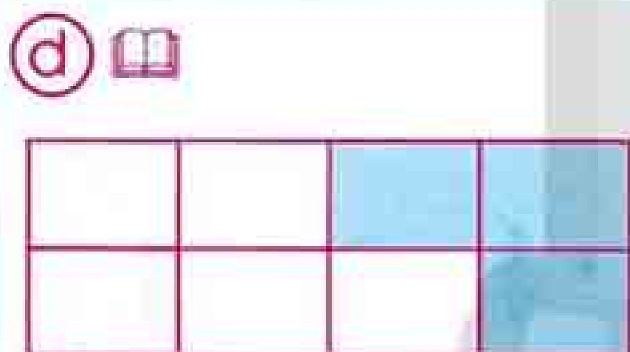
From the school book

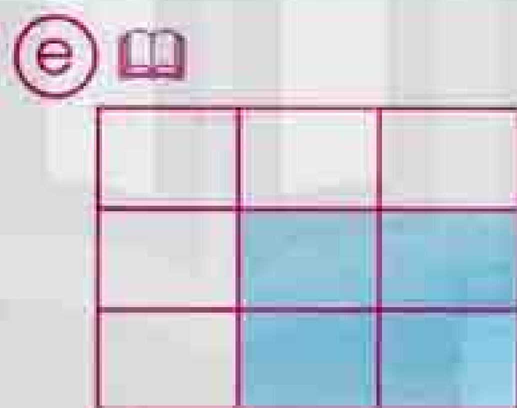
1 Look at the shapes and complete :

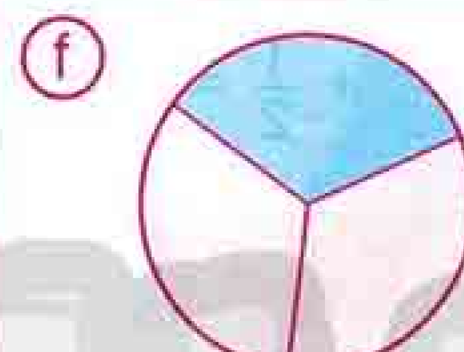
ⓐ

$\frac{1}{4} + \frac{2}{4} = \frac{......}{4}$

ⓑ

$\frac{1}{6} + \frac{2}{6} = \frac{......}{......}$

ⓒ

$\frac{2}{6} + \frac{3}{6} = \frac{......}{......}$

ⓓ

$\frac{2}{8} + \frac{3}{8} = \frac{......}{......}$

ⓔ

$\frac{......}{......} + \frac{......}{......} = \frac{......}{......}$

ⓕ

$\frac{......}{......} + \frac{......}{......} = \frac{......}{......} = ...$

2 Add :

ⓐ $\frac{3}{7} + \frac{1}{7} = \frac{......}{......}$

ⓑ $\frac{1}{5} + \frac{2}{5} = \frac{......}{......}$

ⓒ $\frac{1}{3} + \frac{1}{3} = \frac{......}{......}$

ⓓ $\frac{1}{9} + \frac{7}{9} = \frac{......}{......}$

ⓔ $\frac{3}{8} + \frac{2}{8} = \frac{......}{......}$

ⓕ $\frac{4}{6} + \frac{1}{6} = \frac{......}{......}$

ⓖ $\frac{5}{11} + \frac{4}{11} = \frac{......}{......}$

ⓗ $\frac{4}{15} + \frac{7}{15} = \frac{......}{......}$

ⓘ $\frac{2}{10} + \frac{7}{10} = \frac{......}{......}$

ⓙ $\frac{1}{8} + \frac{2}{8} + \frac{4}{8} = \frac{......}{......}$

ⓚ $\frac{4}{10} + \frac{3}{10} + \frac{2}{10} = \frac{......}{......}$

ⓛ $\frac{1}{11} + \frac{1}{11} + \frac{3}{11} = \frac{......}{......}$

3 Add and simplify the sum to its simplest form :

ⓐ $\frac{1}{8} + \frac{3}{8} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓑ $\frac{2}{9} + \frac{1}{9} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓒ 📖 $\frac{5}{12} + \frac{3}{12} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓓ $\frac{2}{15} + \frac{4}{15} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓔ $\frac{5}{18} + \frac{3}{18} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓕ $\frac{7}{20} + \frac{7}{20} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓖ 📖 $\frac{1}{4} + \frac{3}{4} = \frac{\cdots}{\cdots} = \cdots\cdots$

ⓗ 📖 $\frac{5}{9} + \frac{4}{9} = \frac{\cdots}{\cdots} = \cdots\cdots$

ⓘ 📖 $\frac{1}{2} + \frac{1}{2} = \frac{\cdots}{\cdots} = \cdots\cdots$

ⓙ $\frac{4}{14} + \frac{2}{14} + \frac{1}{14} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓚ $\frac{5}{18} + \frac{1}{18} + \frac{6}{18} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓛ $\frac{2}{9} + \frac{3}{9} + \frac{4}{9} = \frac{\cdots}{\cdots} = \cdots\cdots$

4 Subtract and simplify the result to its simplest form :

ⓐ 📖 $\frac{4}{5} - \frac{1}{5} = \frac{\cdots}{\cdots}$

ⓑ 📖 $\frac{5}{6} - \frac{4}{6} = \frac{\cdots}{\cdots}$

ⓒ 📖 $\frac{4}{9} - \frac{2}{9} = \frac{\cdots}{\cdots}$

ⓓ 📖 $\frac{3}{11} - \frac{1}{11} = \frac{\cdots}{\cdots}$

ⓔ 📖 $\frac{5}{8} - \frac{3}{8} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓕ $\frac{8}{10} - \frac{6}{10} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓖ $\frac{11}{15} - \frac{6}{15} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓗ $\frac{5}{6} - \frac{1}{6} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓘ $\frac{11}{12} - \frac{2}{12} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓙ $\frac{16}{25} - \frac{6}{25} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓚ $1 - \frac{4}{5} = \frac{5}{5} - \frac{4}{5} = \frac{\cdots}{\cdots}$

ⓛ 📖 $1 - \frac{1}{3} = \frac{\cdots}{\cdots} - \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓜ $1 - \frac{1}{2} = \frac{\cdots}{\cdots} - \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓝ $\frac{5}{9} - \frac{0}{9} = \frac{\cdots}{\cdots}$

ⓞ $\frac{4}{11} - \frac{4}{11} = \frac{\cdots}{\cdots} = \cdots\cdots$

ⓟ $\frac{4}{10} - \frac{2}{5} = \cdots\cdots$

5 Join the equal results :

$\frac{2}{5} + \frac{1}{5}$	$\frac{7}{8} - \frac{1}{8}$
$\frac{5}{9} + \frac{1}{9}$	$\frac{4}{5} - \frac{1}{5}$
$\frac{4}{8} + \frac{2}{8}$	$\frac{8}{9} - \frac{2}{9}$
$\frac{3}{10} + \frac{2}{10}$	$\frac{9}{10} - \frac{1}{10}$
$\frac{2}{5} + \frac{2}{5}$	$1 - \frac{1}{2}$



6 Put "< , = or >" :

ⓐ $\frac{6}{7} - \frac{2}{7}$ ...... $\frac{1}{7} + \frac{3}{7}$

ⓑ $\frac{3}{7} + \frac{2}{7}$ ...... $\frac{3}{4} + \frac{1}{4}$

ⓒ $1 - \frac{4}{5}$ ...... $\frac{2}{5}$

ⓓ $1 - \frac{2}{5}$ ...... $\frac{3}{5}$

ⓔ $\frac{3}{6} + \frac{2}{6}$ ...... $1 - \frac{5}{6}$

ⓕ $\frac{4}{9} + \frac{2}{9}$ ...... $\frac{5}{6} - \frac{1}{6}$

7 Complete the following as in the example :



EXAMPLE :

$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$

$\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$ $\frac{3}{5} - \frac{2}{5} = \frac{1}{5}$



ⓐ

$\frac{3}{7} + \frac{1}{7} = \frac{\cdots}{\cdots}$

$\frac{\cdots}{\cdots} - \frac{3}{7} = \frac{\cdots}{\cdots}$ $\frac{\cdots}{\cdots} - \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓑ

$\frac{2}{8} + \frac{5}{8} = \frac{\cdots}{\cdots}$

$\frac{\cdots}{\cdots} - \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$ $\frac{\cdots}{\cdots} - \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

ⓒ

$\frac{2}{5} + \frac{3}{5} = \frac{\cdots}{\cdots} = 1$

$1 - \frac{2}{5} = \frac{\cdots}{\cdots}$ $1 - \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

8 Complete as in the following example :



EXAMPLE :

- $\frac{3}{7} + \frac{\cdots}{\cdots} = \frac{5}{7}$ **The answer :** $\frac{5}{7} - \frac{3}{7} = \frac{2}{7}$
- $\frac{\cdots}{\cdots} + \frac{1}{6} = \frac{5}{6}$ **The answer :** $\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$

ⓐ $\frac{7}{9} + \frac{\cdots}{\cdots} = \frac{8}{9}$ The answer :

ⓑ $\frac{5}{12} + \frac{....}{....} = \frac{9}{12}$ The answer :

ⓒ $\frac{3}{5} + \frac{....}{....} = 1$ The answer :

ⓓ 📖 $\frac{....}{....} + \frac{1}{3} = \frac{2}{3}$ The answer :

ⓔ $\frac{....}{....} + \frac{4}{9} = \frac{8}{9}$ The answer :

ⓕ $\frac{....}{....} + \frac{5}{8} = 1$ The answer :

9 **Complete as in the following example :**



EXAMPLE :

- $\frac{7}{8} - \frac{....}{....} = \frac{3}{8}$ **The answer :** $\frac{7}{8} - \frac{3}{8} = \frac{4}{8}$
- $\frac{....}{....} - \frac{2}{9} = \frac{4}{9}$ **The answer :** $\frac{4}{9} + \frac{2}{9} = \frac{6}{9}$

ⓐ $\frac{9}{10} - \frac{....}{....} = \frac{3}{10}$ The answer :

ⓑ 📖 $\frac{3}{5} - \frac{....}{....} = \frac{2}{5}$ The answer :

ⓒ 📖 $\frac{4}{7} - \frac{....}{....} = \frac{1}{7}$ The answer :

ⓓ $1 - \frac{....}{....} = \frac{3}{10}$ The answer :

ⓔ 📖 $\frac{....}{....} - \frac{3}{4} = \frac{1}{4}$ The answer :

ⓕ 📖 $\frac{....}{....} - \frac{1}{6} = \frac{1}{6}$ The answer :

ⓖ $\frac{....}{....} - \frac{5}{8} = \frac{1}{4}$ The answer :

Unit 3

10 Complete each of the following :

(a) $\frac{2}{9} + \frac{4}{9} + \frac{.....}{.....} = 1$

(b) $\frac{3}{13} + \frac{2}{13} + \frac{.....}{.....} = \frac{9}{13}$

(c) $\frac{3}{8} + \frac{.....}{.....} + 1 = 2$

(d) $\frac{5}{7} + \frac{1}{7} - \frac{.....}{.....} = \frac{2}{7}$

(e) $\frac{3}{12} + \frac{4}{12} - \frac{.....}{.....} = \frac{5}{12}$

(f) $\frac{5}{9} + \frac{2}{9} - \frac{.....}{.....} =$ zero

Word Problems

(a)

Noha divided a cake into equal 8 pieces.
She ate three pieces and her brother ate two pieces.
What is the fraction of the eaten parts ?



The eaten parts = ... = ... parts.

(b)

In the morning ، Amal walks $\frac{1}{4}$ km. In the evening ، she walks $\frac{3}{4}$ km. How long does she walk ?



She walks = ... = ... = ... km.

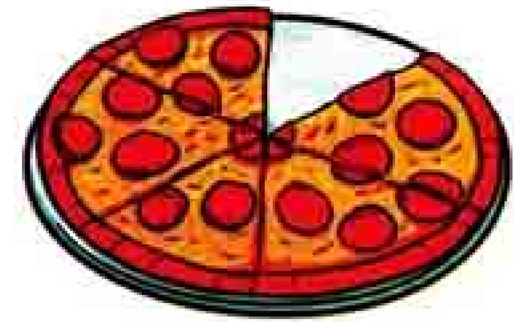
(c)

One day ، $\frac{1}{8}$ of the pupils in a class were absent and $\frac{2}{8}$ of the pupils were on a trip.
What is the fraction of the pupils who were present ?



The fraction of the present pupils = ... = ...

(d) Magda ate $\frac{4}{10}$ of a pizza for lunch and $\frac{1}{10}$ of it for dinner. What is the fraction of the left part (in the simplest form) ?



The left part = ... = ...

Think And Answer

(a) Write :

① Write two fractions whose sum is 1 and

② Write two fractions such that the difference between them is $\frac{2}{7}$

and

(b) Find each of the following :

① $\frac{2}{10} + \frac{1}{5} = \frac{....}{....} + \frac{....}{....} = \frac{....}{....}$

② $\frac{3}{8} + \frac{1}{4} = \frac{....}{....} + \frac{....}{....} = \frac{....}{....}$

③ $\frac{1}{2} - \frac{2}{6} = \frac{....}{....} - \frac{....}{....} = \frac{....}{....}$

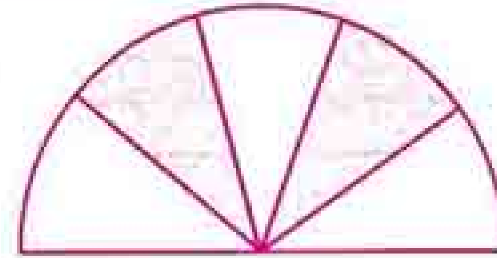


General exercise on unit three from the school book

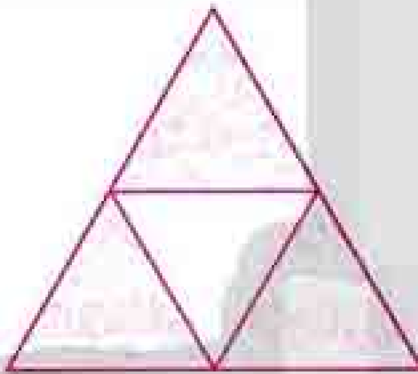
1 **Write the fraction which represents the shaded part in each of the following figures :**

① 

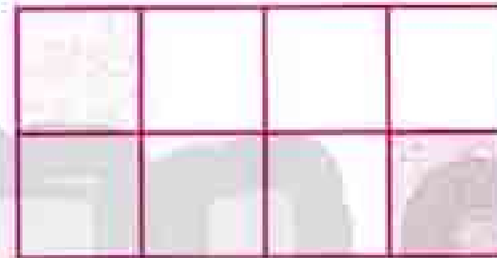
The fraction = $\frac{\dots}{\dots}$

② 

The fraction = $\frac{\dots}{\dots}$

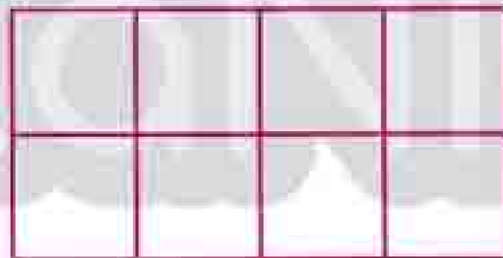
③ 

The fraction = $\frac{\dots}{\dots}$

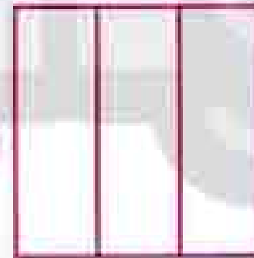
④ 

The fraction = $\frac{\dots}{\dots}$

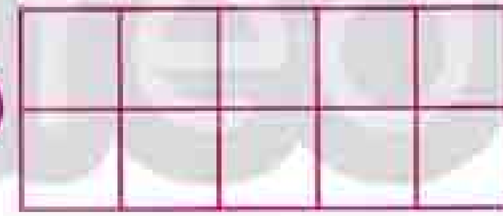
2 **Colour the parts that represents the fraction written under each shape :**

① 

$\frac{5}{8}$

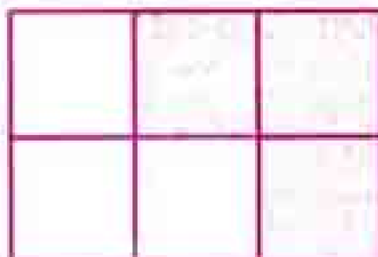
② 

$\frac{2}{3}$

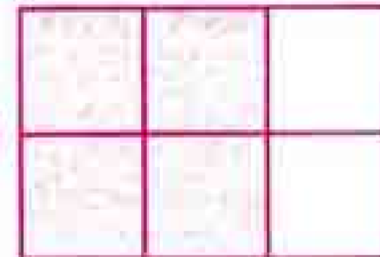
③ 

$\frac{2}{5}$

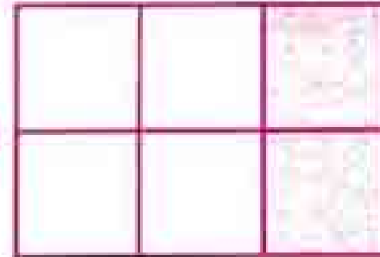
3 **Circle the fraction that represents the coloured part in each of the following shapes :**

① 

$\frac{1}{3}$, $\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{2}$

② 

$\frac{3}{6}$, $\frac{2}{3}$, $\frac{1}{4}$, $\frac{3}{4}$

③ 

$\frac{1}{3}$, $\frac{2}{3}$, $\frac{2}{4}$, $\frac{3}{4}$

4 Complete :

① $\frac{1}{5} + \frac{2}{5} = \frac{\cdots\cdots}{\cdots\cdots}$
② $\frac{2}{7} = \frac{6}{\cdots\cdots}$
③ $\frac{8}{9} - \frac{5}{9} = \frac{\cdots\cdots}{\cdots\cdots}$
④ $\frac{6}{10} = \frac{3}{\cdots\cdots}$
⑤ $1 - \frac{5}{8} = \frac{\cdots\cdots}{\cdots\cdots}$
⑥ $\frac{8}{16} = \frac{\cdots\cdots}{2}$

5 Choose the correct answer from those given between brackets :

① Six fifths = ... ($\frac{5}{6}$ or $\frac{6}{5}$ or $\frac{2}{6}$)
② $\frac{2}{5} + \frac{3}{5}$ = ... ($\frac{1}{5}$ or 1 or $\frac{4}{5}$)
③ $1 = \frac{6}{\cdots\cdots}$ (3 or 6 or 2)
④ Two sevenths + 3 sevenths = ... ($\frac{7}{5}$ or $\frac{5}{7}$ or $\frac{3}{7}$)
⑤ $\frac{9}{27} = \frac{1}{\cdots\cdots}$ (3 or 5 or 7)
⑥ $\frac{5}{7}$ .... $\frac{6}{7}$ (> or < or =)

6 Circle what each of the following fractions equals :

① $\frac{3}{5}$ ($\frac{1}{5} + \frac{3}{5}$, $\frac{6}{20}$, $1 - \frac{2}{5}$)
② $\frac{2}{3}$ ($\frac{6}{9}$, $\frac{9}{11}$, $\frac{9}{15}$)
③ $\frac{6}{7}$ ($\frac{3}{7} + \frac{3}{7}$, $\frac{9}{14}$, $\frac{12}{15}$)

7 Complete using one of the signs " > , < or = " :

① $\frac{5}{8}$ $\frac{7}{8}$
② $\frac{2}{3}$ 1
③ $\frac{11}{13}$ $\frac{7}{13}$
④ 1 $\frac{7}{7}$

8 Order the following fractions ascendingly and descendingly :

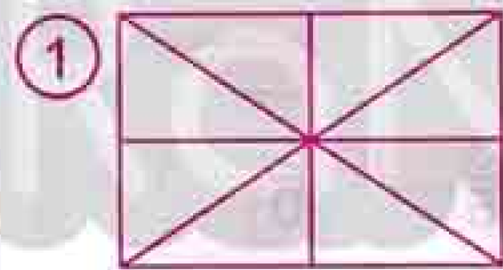
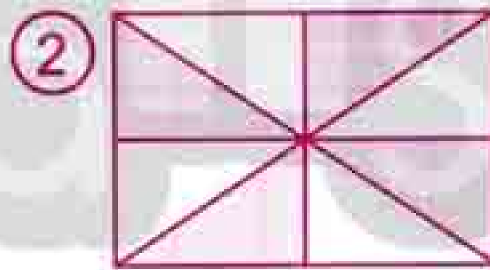
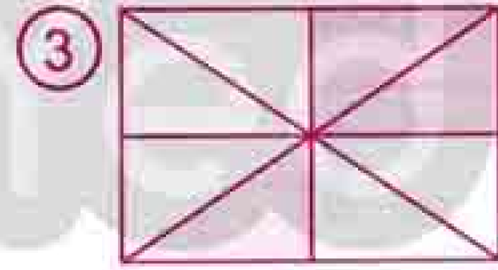
$\frac{1}{10}$, $\frac{3}{10}$, $\frac{2}{10}$, $\frac{9}{10}$

- Ascending order : .... , ... , ... and ....
- Descending order : .... , ... , ... and ....

9 Choose the correct answer :

1. $\frac{15}{25} = \frac{\dots}{5}$ (3 *or* 5 *or* 7)
2. Which of the following fractions represents the whole one ? ($\frac{4}{4}$ *or* $\frac{4}{3}$ *or* $\frac{1}{4}$)
3. $\frac{5}{9}$ .... $\frac{6}{9}$ ($>$ *or* $<$ *or* $=$)

10 Which of the following shapes does represent half ?

1. 
2. 
3. 

11 Complete the following :

1. Four fifths = $\frac{\dots\dots}{\dots\dots}$
2. $\frac{7}{9} - \frac{5}{9} = \frac{\dots\dots}{9}$
3. $\frac{3}{4} + \frac{1}{4} = \frac{\dots\dots}{\dots\dots} = \dots\dots$
4. $1 - \frac{3}{4} = \frac{\dots\dots}{\dots\dots}$
5. $\frac{5}{7} + \frac{\dots\dots}{\dots\dots} = \frac{6}{7}$
6. $\frac{\dots\dots}{\dots\dots} - \frac{4}{9} = \frac{3}{9}$

12 A case of cheese contains 8 equal pieces. Rania ate two pieces.
Write a fraction which represents what Rania ate relative to the all pieces in the case.

13 A piece of land is divided into 9 equal parts. A part of them is planted by cotton, three parts are planted by rice, two parts are planted by wheat.
Write what each of the following represents with respect to the original piece of land :



1. The part which is planted by cotton = ...
2. The part which is planted by rice = ...
3. The part which is planted by wheat = ...

14 Use the suitable mark of (> , < or =) :

1. $\frac{3}{5} - \frac{1}{5}$ $\quad$ $\frac{3}{5}$
2. $\frac{7}{9}$ $\quad$ $\frac{5}{9} - \frac{2}{9}$
3. Four sixths $\quad$ $\frac{4}{6}$
4. $\frac{1}{3}$ $\quad$ $1 - \frac{2}{3}$
5. $\frac{3}{7}$ $\quad$ $\frac{2}{7}$



Unit 3

Activities from the School book

1 Complete the following table :

+	$\frac{1}{7}$	$\frac{4}{7}$	$\frac{3}{7}$
$\frac{2}{7}$	$\frac{3}{7}$	....	....
$\frac{1}{7}$	....	....	....
....	....	1	....

2 What is the fraction ?

(a) What is the fraction that gives the result $\frac{3}{5}$ if $\frac{2}{5}$ is added to it ?

....

(b) What is the fraction that gives one whole if $\frac{3}{4}$ is added to it ?

....

(c) What is the fraction that gives the result $\frac{3}{9}$ if subtracted from $\frac{4}{9}$?

....

(d) What is the fraction that gives $\frac{3}{9}$ if $\frac{4}{9}$ is subtracted from it ?

....

3 Express the following in fractions :

(a) A box of cheese contains 8 equal pieces.
What is each piece in relation to the whole box ?

....

(b) A pie was divided equally among four friends.
What is each one's share ?

....



ⓒ A piece of land was divided into 5 equal pieces. One of the pieces was planted cotton. Two pieces were planted wheat and the other two pieces were planted rice. What does each of the following represent in relation to the original piece of land : Land planted cotton : .... , land planted wheat : .... , land planted rice : ....

ⓓ A class has 36 pupils. 8 pupils went on a trip , what is the fraction that represents the number of pupils that went on the trip in relation to the number of pupils in the class ? «Choose the correct answer»



$\frac{3}{8}$ $\frac{2}{9}$ $\frac{1}{18}$ $\frac{1}{4}$

4 **Complete drawing the arrows so that each arrow goes from the smallest to the greatest :**

Zero $\frac{3}{10}$ $\frac{1}{2}$

$\frac{2}{10}$ $\frac{9}{10}$ 1





UNIT 4

Measurement





- **Lesson 1 :** Measuring temperature.
- **Lesson 2 :** Measuring length.
- **Lesson 3 :** Measuring weight.
- **Lesson 4 :** Measuring time.

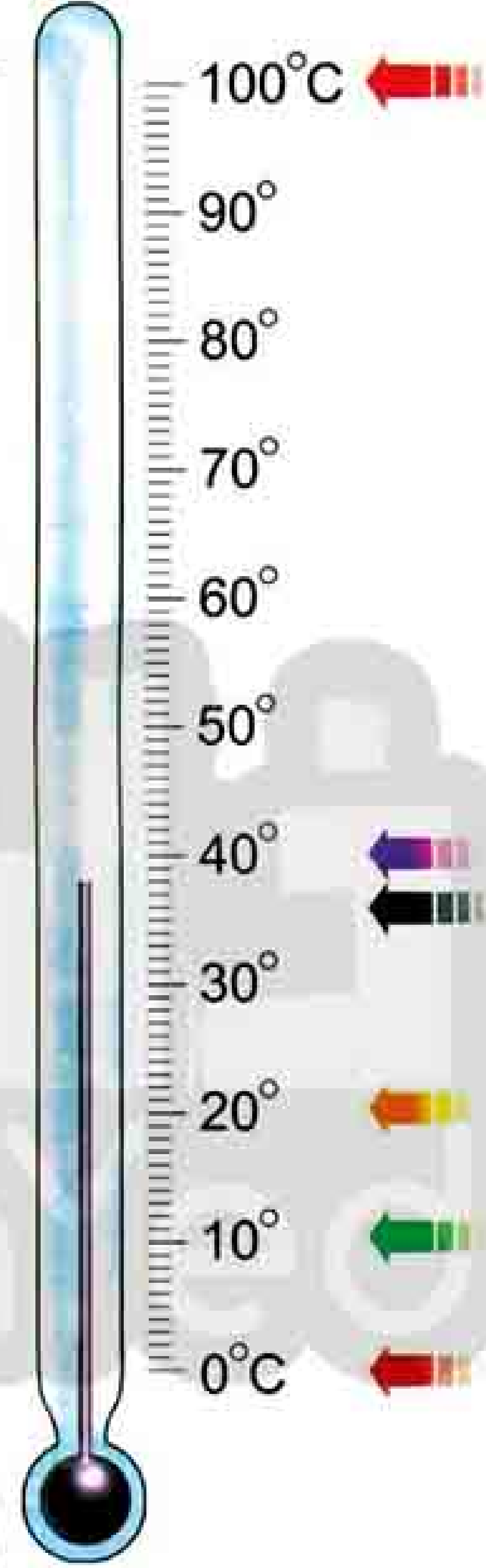
- A general exercise from the school book.
- Activities from the school book.



Unit 4 LESSON 1

Measuring temperature

- We often say "it is hot today" or "this juice is cold".
- The scientific word for the level of hotness of things is temperature.
- It is important to know the temperature of things like water , the air outside , our bodies and so on.
- To measure a temperature we use a thermometer.
- Thermometers are marked to read temperature in degree celsius (°C) as in the opposite figure.



Notice the following degrees :

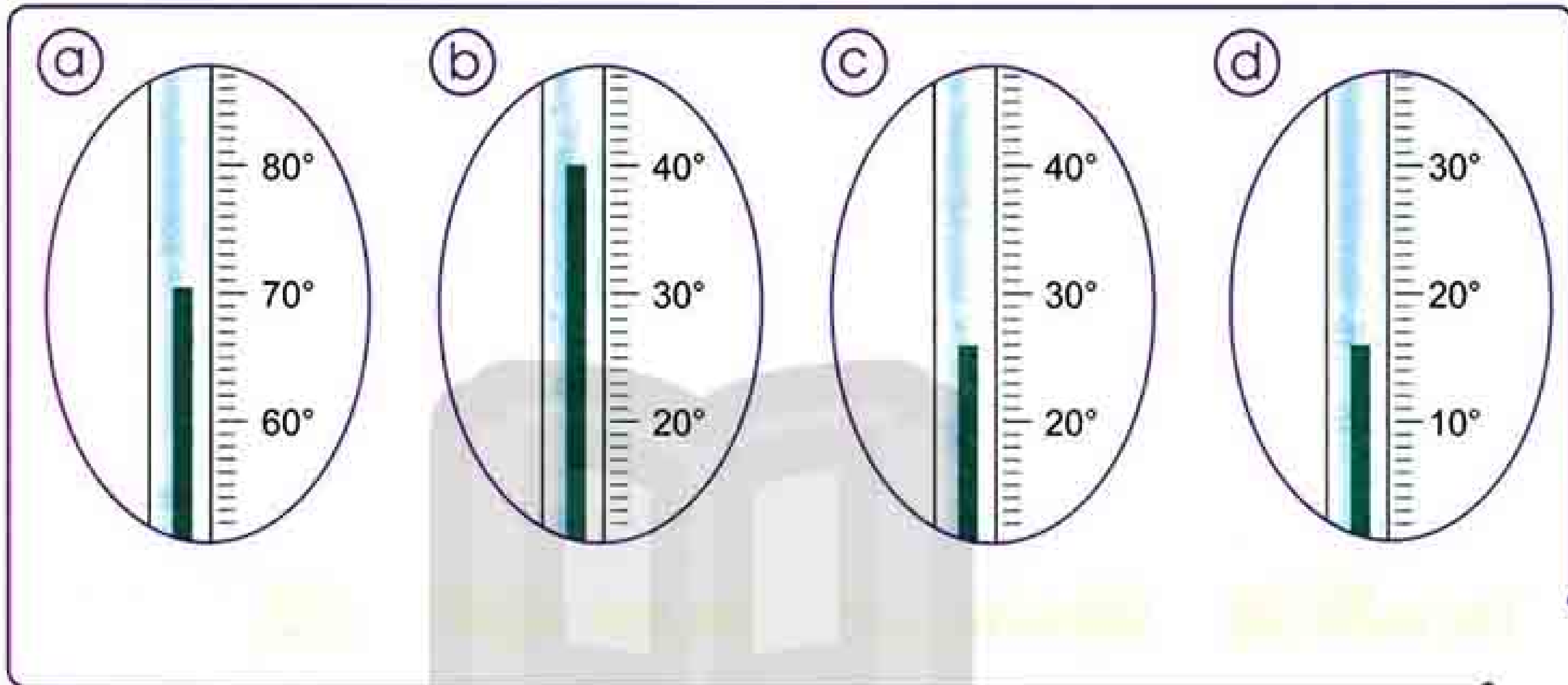
- Boiling point of water (100°C)
- Hot day (40°C)
- Normal body temperature (37°C)
- Room temperature (20°C)
- Cold day (10°C)
- Freezing point of water (0°C)



Exercise 13

From the school book

1 Write temperature in °C :



2 Choose the better estimate of the temperature :

a) 15°C or 35°C

b) 13°C or 40°C

c) 8°C or 25°C

d) 0°C or 22°C

3 Complete each of the following :



(a) The instrument used to measure temperature is ....

(b) The unit used to measure temperature is ....

(c) The normal human temperature is ....

(d) The external temperature at which you would not feel hot or cold is ....

(e) The temperature at which water becomes ice is ....

(f) The temperature at which water boils is ....

(g) The benefit of the weather forecast is ....

4 Choose the correct answer between the brackets :

(a) In winter , we wear .... clothes. (light *or* normal *or* heavy)

(b) Hany wears light clothes like a T-shirt when the temperature is .... °C (38 *or* 15 *or* 10)

(c) We can drink a cup of cold juice when the temperature is .... °C (9 *or* 40 *or* 18)

(d) The temperature of Aswan city in summer may be .... °C (30 *or* 25 *or* 44)

(e) In .... , we wear normal clothes. (summer *or* spring *or* winter)

5 The following table represents temperatures of some Egyptian cities as well as some Arab and world capitals :

City	Higher temperatures	Lower temperatures
Cairo	22°C	11°C
Alexandria	21°C	12°C
Aswan	26°C	11°C
Port Said	21°C	16°C
Suez	23°C	11°C

Minia	23°C	8°C
Ras Sidr	22°C	13°C
The New Valley	25°C	11°C
Halayeb & Shalateen	25°C	16°C
Meccah	30°C	16°C
Amman	15°C	4°C
Baghdad	18°C	7°C
Algeria	20°C	9°C
New York	11°C	5°C
Rome	15°C	1°C
Madrid	10°C	1°C
London	12°C	4°C

Complete with the help of the previous table :

ⓐ In Egypt ، the highest "higher temperature" was ....°C and the lowest was ....°C the highest "lower temperature" was ....°C and the lowest was ....°C

ⓑ If you wanted to go on a trip in Egypt in December، where would you prefer to go according to the temperatures ? ....

ⓒ Among the Arab capitals mentioned in the table :
The highest "higher temperature" was ....°C and the lowest was ....°C
The highest "lower temperature" was ....°C and the lowest was ....°C

ⓓ Among world capitals :
The highest "higher temperature" was ....°C and the lowest was ....°C
The highest "lower temperature" was ....°C and the lowest was ....°C

6 The temperature recorded in one of weeks as follows :

Day	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	12°C	9°C	13°C	9°C	11°C	8°C	10°C

Answer the following questions :

ⓐ On what day was the temperature the highest ? ....

ⓑ On what day was the temperature the lowest ? ....

ⓒ Which two days have equal temperature ? .... and ....

7 The following table shows the temperatures of a city measured in a week. Look at the table and complete :

Day	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	23°C	21°C	20°C	28°C	24°C	19°C	17°C

ⓐ The lowest temperature was on ....

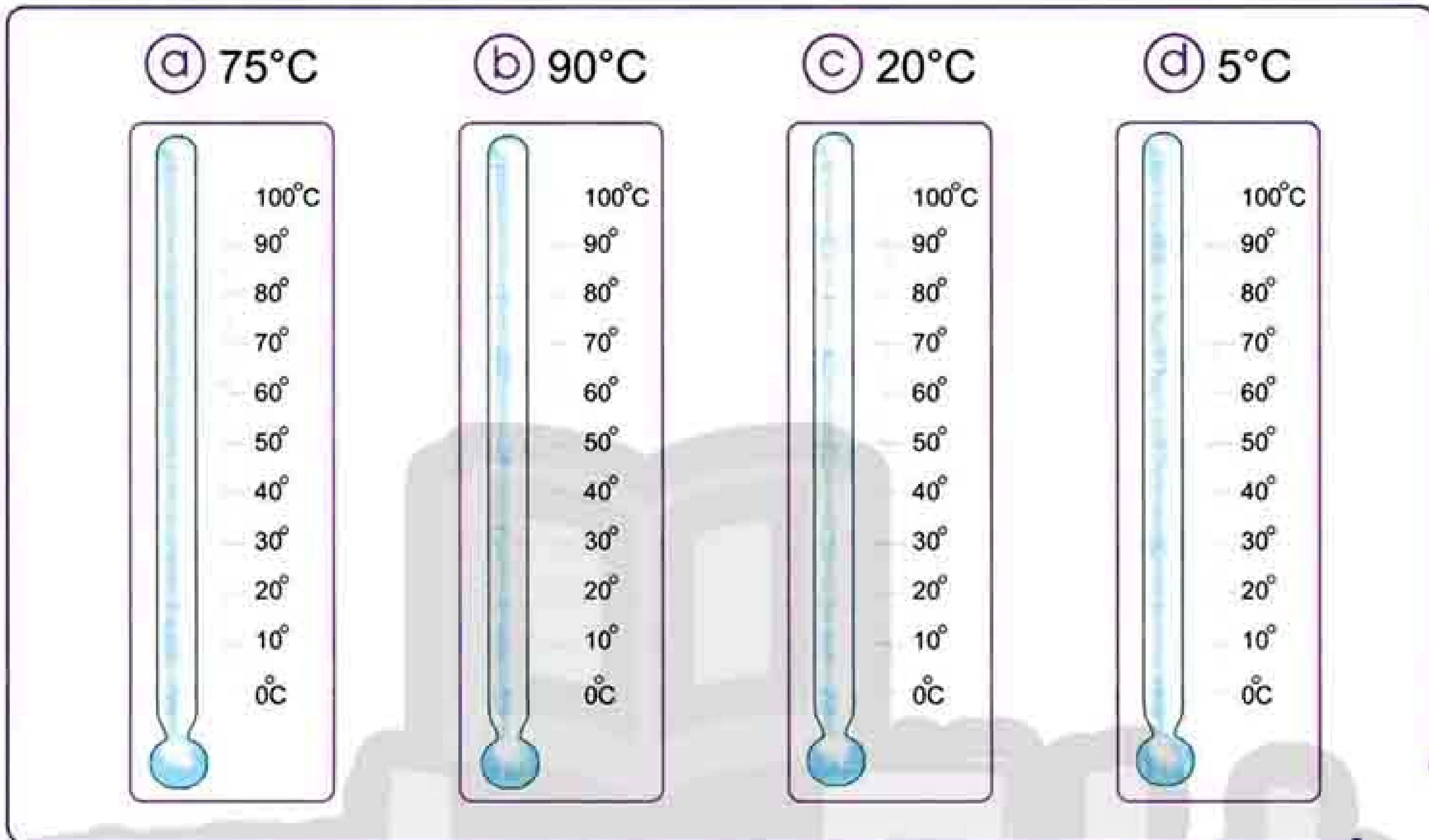
ⓑ The difference between the highest and lowest temperatures = ... – .... = ...°C

ⓒ The hottest day was ....

ⓓ The temperatures was less than 20°C on .... and ....

ⓔ Which kind of clothes do you advise people to wear on Friday ? ....

8 **Colour the thermometer to show the temperature :**



9 **Answer the following questions :**



ⓐ In Paris , the temperature was 12°C , but in Madrid was 4°C hotter.

What was the temperature in Madrid ? ....

ⓑ In Athens , the temperature was 11°C , but in Berlin was 2°C colder.

What was the temperature in Berlin ? ....







LESSON 2

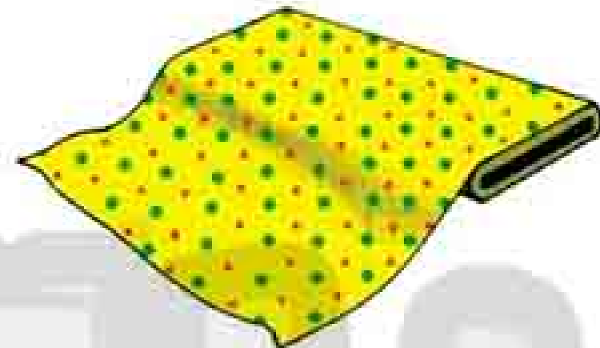
Measuring length

Units of measuring length

- The centimetre (cm.) is used to measure small lengths such as the length of a pencil or a ruler.



- The metre (m.) is used to measure the lengths of cloth , rooms or height of a house.



- The kilometre (km.) is used to measure long lengths such as the distance between two cities.



Notice that :

1 kilometre = 1 000 metres. briefly we write : 1 km. = 1 000 m.

1 metre = 100 centimetres. briefly we write : 1 m. = 100 cm.

$\frac{1}{2}$ km. = 500 m.	$\frac{1}{2}$ m. = 50 cm.
$\frac{1}{4}$ km. = 250 m.	$\frac{1}{4}$ m. = 25 cm.
$\frac{3}{4}$ km. = 750 m.	$\frac{3}{4}$ m. = 75 cm.



Exercise 14

📖 From the school book

1 Which is suitable to use km. , m. or cm. for measuring :



EXAMPLE :

The length of your pen ? cm.

ⓐ The length of a tree ? ....

ⓑ 📖 The length of the swimming pool ? ....

ⓒ The length of a river ? ....

ⓓ The height of the pyramids of Giza ? ....

ⓔ 📖 The length of a pencil ? ....

ⓕ The length of your book ? ....

ⓖ The length of a train ? ....

ⓗ 📖 The distance between Cairo and Alexandria ? ....

ⓘ 📖 The distance between Cairo and Amman ? ....



2 Choose the correct answer between brackets :



EXAMPLE :

The distance between Cairo and Sharm El-Sheikh can be ....
(1 456 cm. or 600 km. or 14 m.)

ⓐ The length of an eraser can be .... (2 m. or 2 km. or 3 cm.)

ⓑ 📖 The length of a school notebook can be ....
(25 cm. or 1 m. or 1 km.)

ⓒ The height of a building can be .... (25 km. or 25 cm. or 25 m.)

ⓓ The height of the class door can be ....
(half kilometre or 25 centimetres or 2 metres)

ⓔ The length of the school bus can be ....
(125 cm. **or** 50 m. **or** 6 m.)

ⓕ 📖 The perimeter of the playground can be ....
(100 km. **or** 100 m. **or** 1 km.)

ⓖ 📖 The height of a child can be .... (140 cm. **or** 2 m. **or** 1 km.)

ⓗ The length of your trousers can be .... (80 cm. **or** 5 m. **or** 6 cm.)

ⓘ The height of Cairo Tower can be ....
(7 000 m. **or** 187 m. **or** 187 cm.)

ⓙ The height of the greatest pyramid can be ....
(18 km. **or** 5 500 m. **or** 137 m.)

ⓚ 📖 The distance between two Egyptian cities can be ....
(10 000 km. **or** 3 000 km. **or** 200 km.)

3 Complete as in the example :



EXAMPLE :

- **4 kilometres = 4 × 1 000 = 4 000 metres.**
- **5 metres = 5 × 100 = 500 centimetres.**

ⓐ 2 kilometres = 2 × .... = ... metres.

ⓑ 📖 5 kilometres = ... × .... = ... metres.

ⓒ 📖 15 kilometres = ... × .... = ... metres.

ⓓ 📖 12 kilometres = ... × .... = ... metres.

ⓔ 30 kilometres = ... × .... = ... metres.

ⓕ 9 metres = 9 × .... = ... centimetres.

ⓖ 40 metres = 40 × .... = ... centimetres.

ⓗ 📖 25 metres = ... × .... = ... centimetres.

ⓘ 📖 43 metres = ... × .... = ... centimetres.

ⓙ 📖 570 metres = ... × .... = ... centimetres.



4 Complete as in the example :



EXAMPLE :

- **5 000 m. = 5 km.**
- **3 000 cm. = 30 m.**

(a) 9 000 m. = ... km.	(b) 18 000 m. = ... km.
(c) 700 cm. = ... m.	(d) 2 400 cm. = ... m.
(e) 30 000 m. = ... km.	(f) 84 000 m. = ... km.
(g) 91 000 m. = ... km.	(h) 9 400 cm. = ... m.
(i) 8 000 cm. = ... m.	(j) 40 000 cm. = ... m.

5 Complete as in the example :



EXAMPLE :

- **5 kilometres and 31 metres = 5 031 metres.**
- **9 metres and 84 centimetres = 984 centimetres.**

(a) 2 kilometres and 324 metres = ... metres.

(b) 9 kilometres and 640 metres = ... metres.

(c) 15 kilometres and 14 metres = ... metres.

(d) 28 kilometres and 8 metres = ... metres.

(e) 10 kilometres and 409 metres = ... metres.



(f) 7 metres and 43 centimetres = ... centimetres.

(g) 5 metres and 24 centimetres = ... centimetres.

(h) 16 metres and 5 centimetres = ... centimetres.

(i) 78 metres and 12 centimetres = ... centimetres.

(j) 50 metres and 5 centimetres = ... centimetres.

6 Complete as in the example :



EXAMPLE :

- **5 715 m. = 5 km. and 715 m.**
- **324 cm. = 3 m. and 24 cm.**



ⓐ 7 455 m. = ... km. and .... m.

ⓑ 15 140 m. = ... km. and .... m.

ⓒ 14 400 m. = ... km. and .... m.

ⓓ 19 109 m. = ... km. and .... m.

ⓔ 10 005 m. = ... km. and .... m.

ⓕ 876 cm. = ... m. and .... cm.

ⓖ 940 cm. = ... m. and .... cm.

ⓗ 503 cm. = ... m. and .... cm.

ⓘ 16 015 cm. = ... m. and .... cm.

ⓙ 1 760 cm. = ... m. and .... cm.

7 Join the equal distances :

2 kilometres and 5 metres	250 centimetres
2 metres and 5 centimetres	205 centimetres
2 kilometres and 50 metres	**2 005 metres**
2 kilometres and a half	2 500 metres
2 metres and 50 centimetres	2 050 metres

8 Complete the following :

(a) Half kilometre = ……… metres.

(b) 6 kilometres and a quarter = ……… metres.

(c) Six metres and a half = ……… centimetres.

(d) $\frac{1}{4}$ kilometre = ……… m. = ……… cm.

(e) $\frac{3}{4}$ km. = ……… cm.

(f) 4 m. and 75 cm. = ……… cm.

(g) 7 km. and 12 m. = ……… m.

(h) 2 km. – 2 m. = ……… m.

(i) 50 000 cm. = ……… m. = ……… km.

9 Put the suitable relation (< , = or >) in the blanks :

(a) 4 km. ☐ 3 999 m.

(b) 1 500 cm. ☐ 15 m.

(c) 3 km. ☐ 999 m.

(d) 1 000 m. ☐ 10 km.

(e) 4 km. and 75 m. ☐ 4 750 m.

(f) 825 cm. ☐ 8 m. and a quarter

(g) 6 795 m. ☐ 6 km. and a half

(h) 7 km. and a quarter ☐ 7 350 m.



(i) $\frac{1}{4}$ km. + 750 m. ☐ one kilometre

(j) $\frac{1}{4}$ km. + 4 m. ☐ 253 m.

(k) $\frac{3}{4}$ km. ☐ 800 m. – 50 m.

10 Arrange the following lengths ascendingly :

(a) 280 centimetres , 802 centimetres , 2 metres , 8 metres
The order is : ……………… , ……………… , ……………… , ………………

(b) 2 metres and a quarter of metre , 210 cm. , half a metre.
The order is : ……………… , ……………… , ………………

ⓒ 4 km. , 2 950 m. , 3 000 m. , 2 km.
The order is : .... , ... , ... , ...

ⓓ 1 250 m. , 250 m. , $\frac{3}{4}$ km. , 2 km.
The order is : .... , ... , ... , ...

Word Problems



EXAMPLE :

Maher bought a new car and he found that the reading of the car metre was 45 km. After one year , he found the reading of the car metre was 8 213 km. How many kilometres did he cover ?



The distance that Maher covered = 8 213 – 45 = 8 168 km.

ⓐ Hany is 1 metre and a half tall and his friend Sameh is 155 cm. tall , what is the difference between their heights ?



The difference between their heights
= .... – .... = ... cm.

ⓑ The distance between the school of Karim and his home is 2 km. , if he walked a distance of 1 050 m. What is remaining distance ?



The remaining distance
= .... – .... = ... m.

ⓒ The reading of a car metre was 56 714 km. when the driver began his trip from Cairo to Luxor city. When he arrived at Luxor , the metre reading was 57 455 km. Calculate the distance between Cairo and Luxor.



The distance between Cairo and Luxor = ... – .... = ... km.

ⓓ The following table shows the distance in kilometres between a number of cities and locations in the Arab Republic of Egypt.



Between Cities / Locations	Distance in kilometres
Cairo - Taba (St. Catherine Road)	623
Cairo - Ahmed Hamdy tunnel	131
Ahmed Hamdy tunnel - St. Catherine	319

With the help of this table, find the following distances in kilometres :

(1) The distance between the Ahmed Hamdy tunnel and Taba is : ....

(2) The distance between Cairo and St. Catherine is : ....

(3) The distance between St. Catherine and Taba is : ....



(4) Put the distances you obtained in descending order : ....

Think And Answer

ⓐ Complete :

① The difference in length between 1 metre and 98 cm. = ... cm.

② The difference in length between 1 km. and 98 m. = ... m.

ⓑ One mile equals nearly 1 760 metres :

① Which is greater , one kilometre or one mile ? ....

② Which is greater , 2 miles or 3 kilometres ? ....



Unit 4 LESSON 3

Measuring weight

Units of measuring weight

- The gram (gm.) is used to measure the weight of light things such as pen or ring.



- The kilogram (kg.) is used to measure the weight of heavier things such as fruits , cheese , vegetables or fish.



Notice that :

1 kilogram = 1 000 grams. briefly we write : 1 kg. = 1 000 gm.

- $\frac{1}{2}$ kg. = 500 gm.
- $\frac{1}{4}$ kg. = 250 gm.
- $\frac{3}{4}$ kg. = 750 gm.



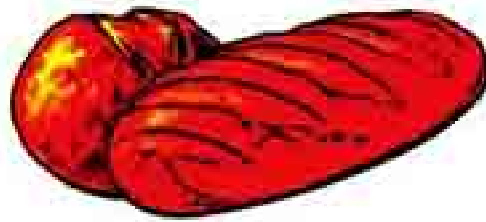




Exercise 15

From the school book

1 **Choose a suitable unit of weight (kilogram or gram) for each of the following measurements :**

ⓐ

Pastry

ⓑ

Jewelry

ⓒ


A bottle of medicine

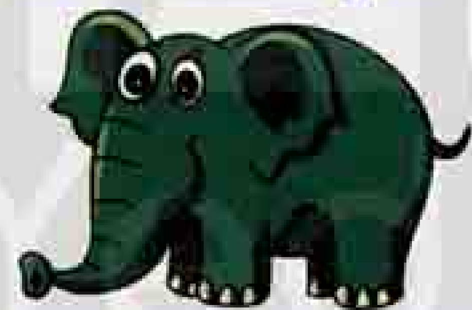
ⓓ

Meat

2 **Circle the better estimation of each weight as in the example :**

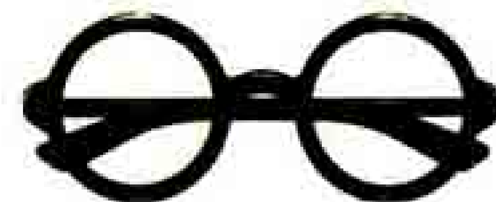

EXAMPLE :

6 408 grams **6 408 kilograms** (circled)



ⓐ

41 kilograms 4 kilograms

ⓑ

40 kilograms 40 grams

ⓒ

6 kilograms 6 grams

ⓓ

1 gram 155 grams

(e)	(f)
	
1 127 grams 1 127 kilograms	10 kilograms 10 grams

3 What is your estimation of the following weights ?
Underline the answers you find suitable :

(a) The weight of a loaf of bread .... (150 gm. *or* $\frac{1}{2}$ kg.)
(b) The weight of an elephant .... (10 000 gm. *or* 300 kg.)
(c) The weight of jewelry .... (20 gm. *or* 10 kg.)
(d) The weight of meat .... (20 gm. *or* 2 kg.)
(e) The weight of 20 olives .... (400 gm. *or* 7 kg.)

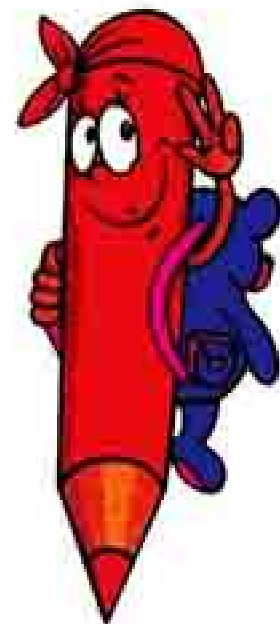
4 Complete as in the example :



Example :

- **9 kilograms = 9 000 grams.**
- **8 000 grams = 8 kilograms.**

(a) 5 kilograms = ... grams.
(b) 4 000 grams = ... kilograms.
(c) 3 kilograms = ... grams.
(d) 10 000 grams = ... kilograms.
(e) 23 kilograms = ... grams.
(f) 28 000 grams = ... kilograms.
(g) 18 kilograms = ... grams.



ⓗ 13 000 grams = ... kilograms.
ⓘ 30 kilograms = ... grams.
ⓙ 40 000 grams = ... kilograms.

5 Complete as in the example :



- **5 kg. and 351 gm. = 5 351 gm.**
- **8 005 gm. = 8 kg. and 5 gm.**



ⓐ 4 kg. and 700 gm. = ... gm.
ⓑ 3 kg. and 30 gm. = ... gm.
ⓒ 10 kg. and 800 gm. = ... gm.
ⓓ 64 kg. and 32 gm. = ... gm.
ⓔ 53 kg. and 8 gm. = ... gm.
ⓕ 4 500 gm. = ... kg. and .... gm.
ⓖ 3 715 gm. = ... kg. and .... gm.
ⓗ 3 508 gm. = ... kg. and .... gm.
ⓘ 7 009 gm. = ... kg. and .... gm.
ⓙ 6 100 gm. = ... kg. and .... gm.

6 Choose the correct answer between brackets :



The weight of a hen can be ....
(20 kg. or 50 gm. or 2 kg. or 5 gm.)

ⓐ The weight of a parrot can be ....
(1 600 kg. or 2 kg. or 15 gm. or 100 gm.)
ⓑ The weight of Hosam can be .... (150 gm. or $\frac{1}{2}$ kg. or 50 kg.)

ⓒ The weight of a baby can be ……… (70 kg. or 7 kg. or 70 gm. or 7 gm.)

ⓓ The weight of a watermelon can be ……… (100 kg. or 7 gm. or 70 gm. or 7 000 gm.)

ⓔ The unit of measuring weight is ……… (hour or kg. or km.)

ⓕ $\frac{1}{2}$ kg. = ……… gm. (5 or 50 or 500)

ⓖ 16 kg. and 70 gm. = ……… gm. (16 700 or 16 070 or 16 007 or 6 070)

ⓗ 6 020 gm. = 6 kg. + ……… gm. (2 or 20 or 200 or 2 000)

7 Join the equal weights :

2 kg. and 20 gm.	2 002 gm.
2 kg. and a quarter	2 200 gm.
1 750 gm. and 250 gm.	**2 020 gm.**
2 kg. and 2 gm.	2 250 gm.
2 kg. and 200 gm.	2 kg.

8 Complete :

ⓐ 2 kg. and a half = ……… gm.

ⓑ 5 kg. and a quarter = ……… gm.

ⓒ 7 kg. and three quarters = ……… gm.

ⓓ 6 kg. and a quarter + 200 gm. = ……… gm.

ⓔ 2 kg. and a half + 50 gm. = ……… gm.

ⓕ 2 kg. and a quarter + 3 750 gm. = ……… gm.

ⓖ 5 kg. – 1 750 gm. = ……… gm.



9 Put (<, = or >) in the blanks :

ⓐ 7 kilograms ...... 700 grams.

ⓑ 5 kg. ...... 5 003 gm.

ⓒ 8 999 gm. ...... 9 kg.

ⓓ 5 050 gm. ...... 5 kg. and 50 gm.

ⓔ 7 150 gm. ...... 7 kg. and a quarter.

ⓕ $\frac{1}{2}$ kilogram ...... 50 grams.

ⓖ 2 kg. and a quarter ...... 2 225 gm.

ⓗ 3 kg. ...... 3 700 gm.

ⓘ 1 kg. and a half ...... 1 050 gm.

ⓙ 7 kg. and 200 gm. ...... 7 500 gm.

ⓚ 6 kg. + 300 gm. ...... 7 kg. – 700 gm.



10 Arrange the following weights descendingly :

ⓐ 5 000 gm. , 3 750 gm. , 2 kg. , 6 kg.
The order is : .... , ... , ... , ...

ⓑ 6 500 gm. , 6 kg. , 6 200 gm. , 601 kg.
The order is : .... , ... , ... , ...

ⓒ 560 gm. , 650 gm. , $\frac{1}{4}$ kg. , 1 kg.
The order is : .... , ... , ... , ...

ⓓ 5 400 gm. , $\frac{3}{4}$ kg. , 4 500 gm. , 5 kg.
The order is : .... , ... , ... , ...

LESSON 3

Word Problems



EXAMPLE :

Essam went to the supermarket and bought a bottle of oil and a packet of tea. If their weights are three kilograms and a half and 500 grams. What is the total weight in grams ?

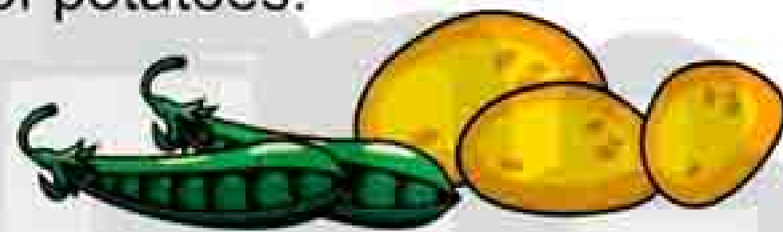


The total weight = 3 500 + 500 = 4 000 gm.

(a)

Farah bought 2 kilograms and a half of green beans and two kilograms and a quarter of potatoes.

How many grams did Farah carry ?



The weight that Farah carried

= .... + ... = ... gm.

(b)

Nagi bought 3 kg. and a quarter of grapes and 1 kg. and three quarters of mangoes.

How many grams did Nagi carry ?



The weight that Nagi carried

= .... + ... = ... gm.

(c)

Osama bought 4 kg. of apples and 3 kg. and a half kg. of oranges.

How many grams did Osama carry ?



The weight that Osama carried

= .... = ... gm.

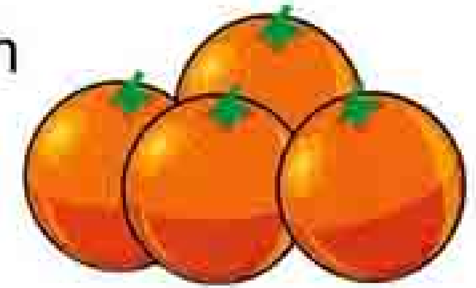
(d)



If the weight of Hany is 45 kg. and 200 gm.
and the weight of his friend Ramzy
is 48 kg. and 100 gm.
What is the difference between their weights in grams ?

The difference between their weights = ... = ... gm.

(e)



Nabila bought 3 kilograms of oranges for L.E. 4 each
and 2 kilograms of grapes for L.E. 3 each.
How much money did she pay ?



The price of oranges = ... = L.E. ....
The price of grapes = ... = L.E. ....
She paid = ... = L.E. ....

(f)

Sawsan went to a shop that sells vegetables and fruits , she bought the following :
1 kg. of tomatoes.
1 kg. of potatoes.
1 kg. of cucumbers.
2 kg. of oranges.
1 kg. of peas.
What is the total sum she paid ?
....
....
....

Price List	
Items	**Price / kg.**
Tomatoes	L.E. 3
Green peppers	L.E. 2
Peas	L.E. 4
Marrow	L.E. 3
Cucumber	L.E. 2
Onions	L.E. 3
Potatoes	L.E. 3
Bananas	L.E. 4
Oranges	L.E. 2
Apples	L.E. 9
Guavas	L.E. 3



Unit 4 LESSON 4

Measuring time

A clock face

The hour hand is the shortest hand , it indicates what hour it is.
This hour hand shows 11

The hands move in this direction.
This is called the clockwise direction.



Between each two numbers there are 5 minutes.

The number of small marks are the number of minutes.

The second hand is usually long and thin , and sweeps quickly around the face.

The minute hand is longer than the hour hand , it shows the minutes. On this clock face 20 minutes have passed.

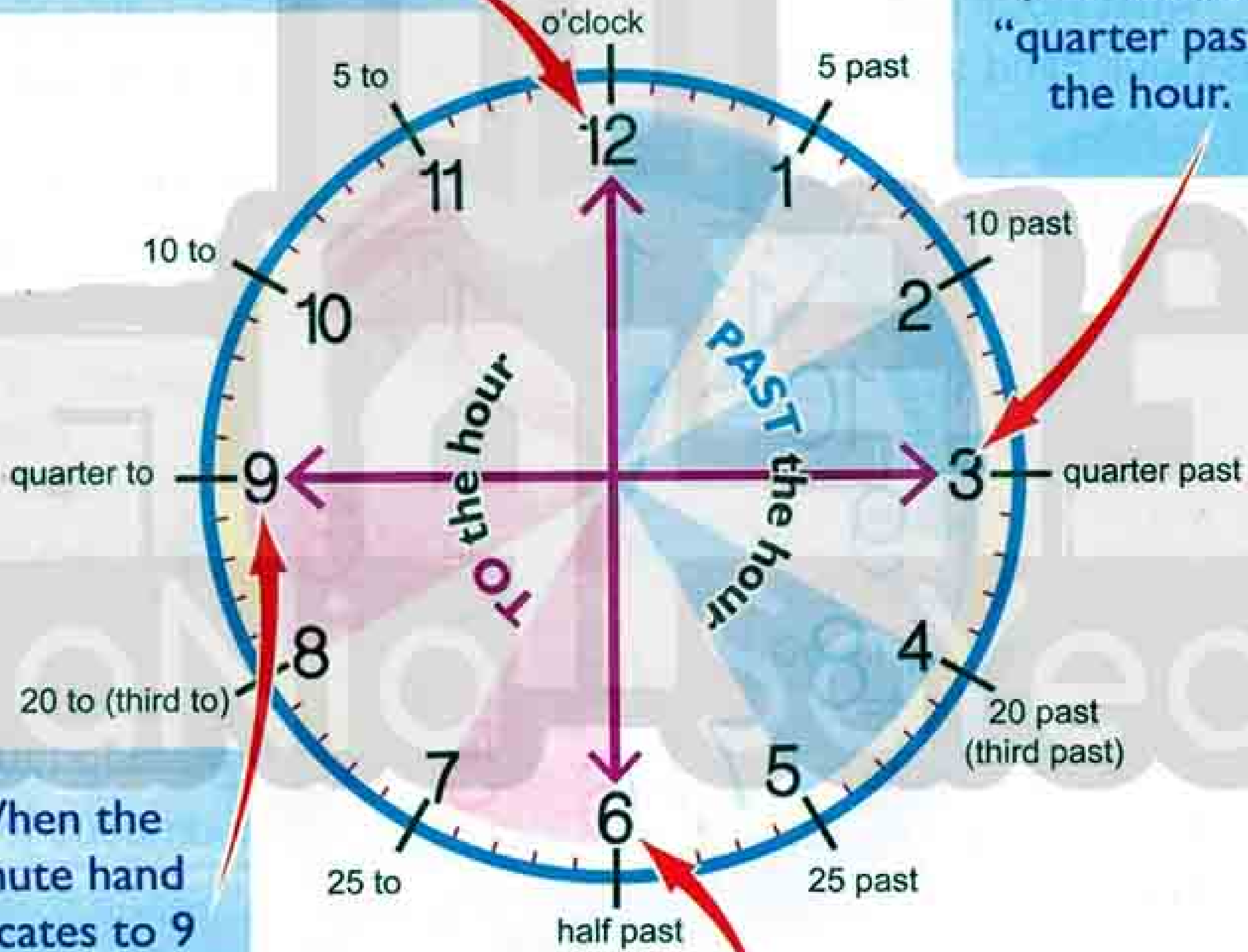
Telling the time

The time can be told by looking carefully at where the hour hand and the minute hand position on a clock.

The hour hand is shorter and moves around slowly. The minute hand is longer than the hour hand and points at minutes "past" the hour or "to" the next one.

When the minute hand indicates to 12, the time is "on the hour" as shown by the hour hand.

When the minute hand indicates to 3, the time is "quarter past" the hour.



When the minute hand indicates to 9, the time is "quarter to" the hour.

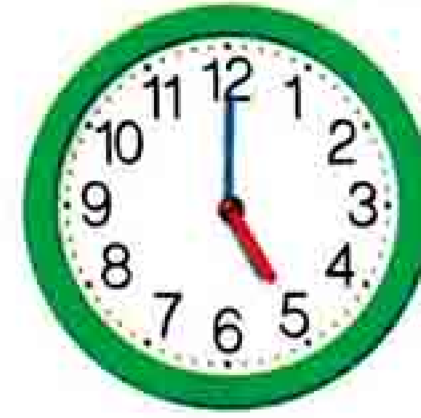
When the minute hand indicates to 6, the time is "half past" the hour.

LESSON 4

Examples


It's 3 o'clock
3:00


It's 8 o'clock
8:00


It's 5 o'clock
5:00


It's half past seven
7:30


It's quarter past four
4:15

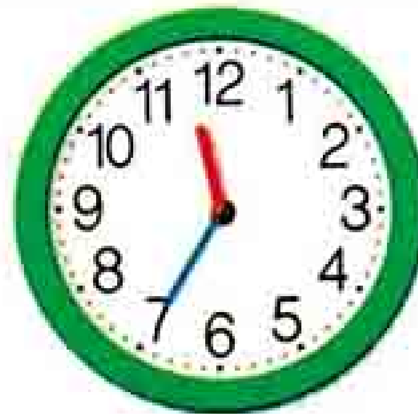

It's quarter to six
5:45


It's 5 past ten
10:05


It's 25 past two
2:25


It's third past nine
9:20


It's 10 to one
12:50


It's 25 to twelve
11:35


It's 20 to eight
7:40

Unit 4

Units of measuring time



- 1 minute = 60 seconds.

For Example :

3 minutes = 3 × 60 = 180 seconds.

- 1 hour = 60 minutes.

For Example :

2 hours = 2 × 60 = 120 minutes.

- 1 day = 24 hours.

For Example :

5 days = 5 × 24 = 120 hours.

- 1 week = 7 days.

For Example :

3 weeks = 3 × 7 = 21 days.

- 1 year = 365 days. (366 days in a leap year)

Days of the week :



A.D calendar

January

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

February

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

March

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

April

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

August

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

September

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

October

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

November

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

From the previous calendar , we notice that :

- January is the 1st month of the year.
- December is the last month of the year.
- Each of January, March, May, July, August, October and December has 31 days.
- Each of April , June , September and November has 30 days.
- February has 28 days, but it has 29 days in the leap year.

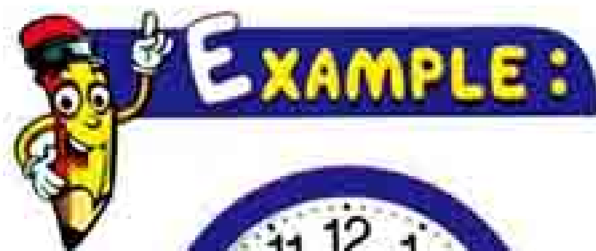
Remarks :

- The number of days in 2015 = $(7 \times 31) + (4 \times 30) + 28 = 217 + 120 + 28 = 365$
- The number of days in 2016 = $(7 \times 31) + (4 \times 30) + 29$
  $= 217 + 120 + 29 = 366$ (leap year)

Exercise 16

📖 *From the school book*

1 Write the time as in the example :





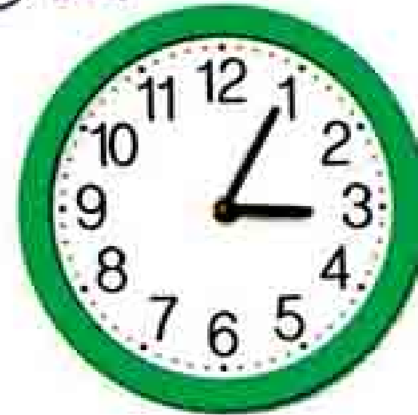
It's half past three
3 : 30

(a) 📖



It's ....
.... : ....

(b) 📖



It's ....
.... : ....

(c) 📖



It's ....
.... : ....

(d)



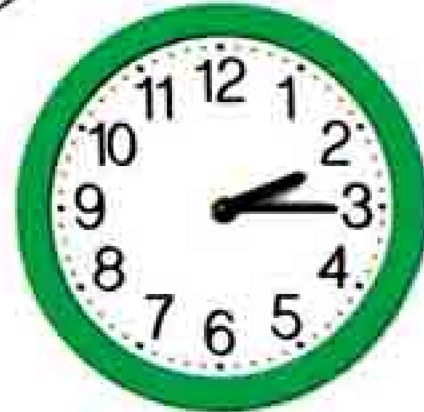
It's ....
.... : ....

(e) 📖



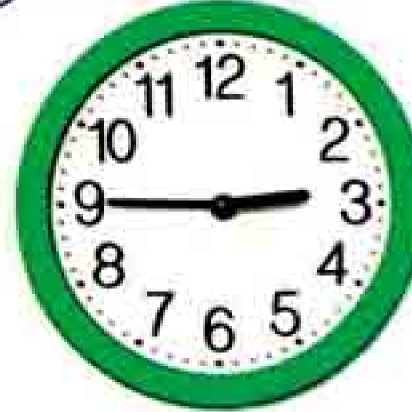
It's ....
.... : ....

(f)



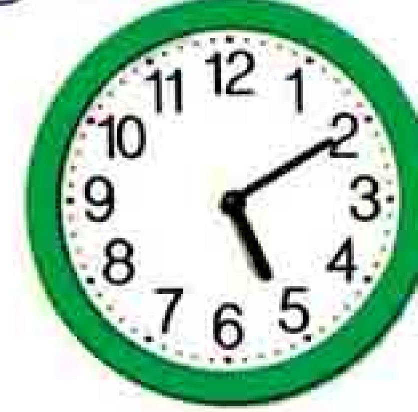
It's ....
.... : ....

(g) 📖



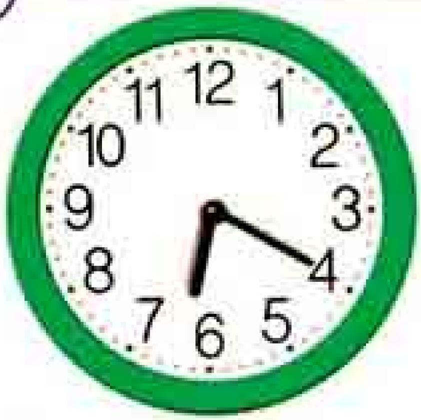
It's ....
.... : ....

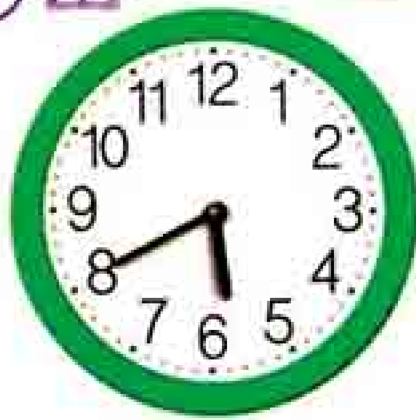
(h) 📖

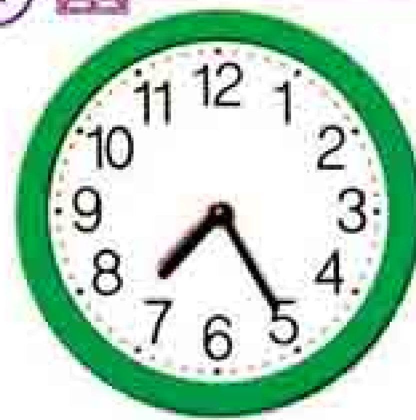


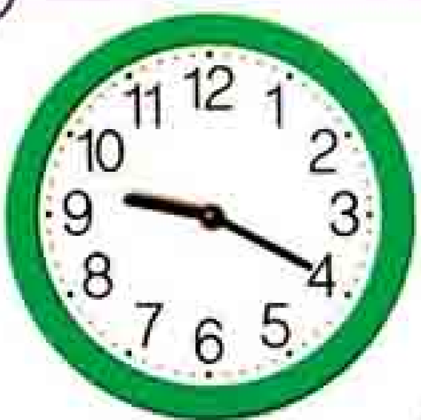
It's ....
.... : ....

LESSON 4

i

It's ....
.... : ....

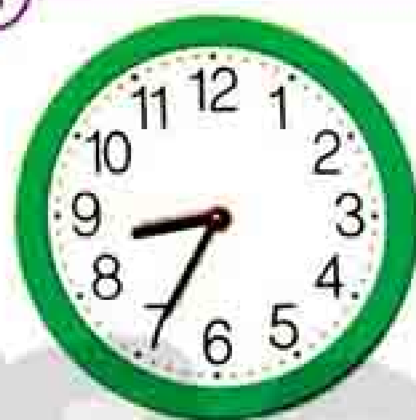
j

It's ....
.... : ....

k

It's ....
.... : ....

l

It's ....
.... : ....

m

It's ....
.... : ....

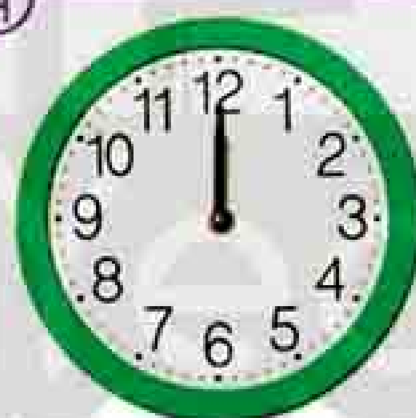
n

It's ....
.... : ....

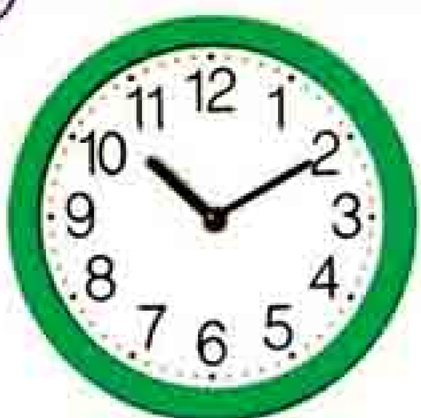
o

It's ....
.... : ....

p

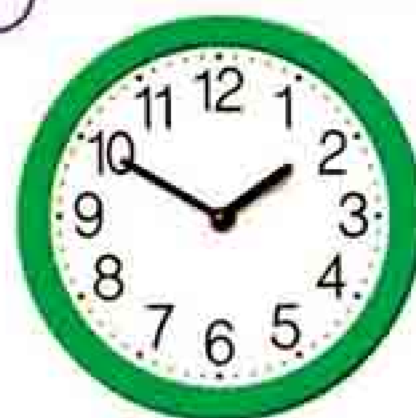
It's ....
.... : ....

q

It's ....
.... : ....

r

It's ....
.... : ....

s

It's ....
.... : ....

t

It's ....
.... : ....

2 Draw the two hands and complete as in the example :

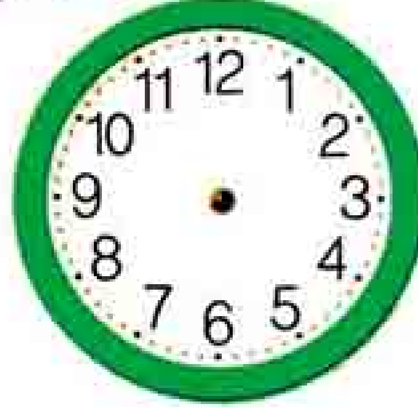




It's twenty past two

2 : 20

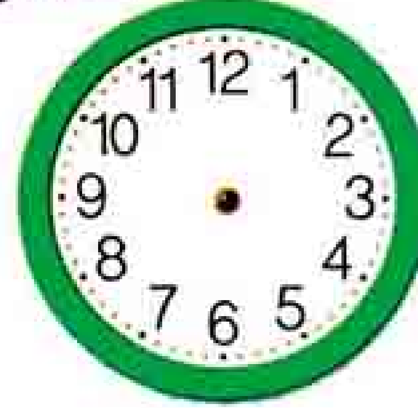
a



It's 10 past 7

.... : ....

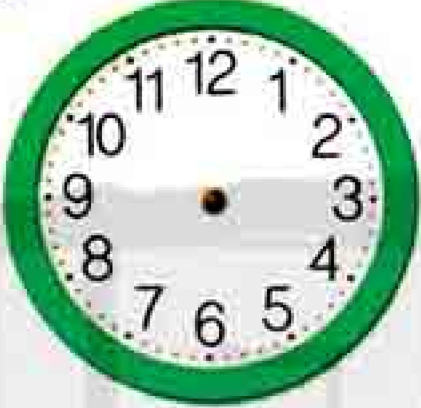
b



....

8 : 55

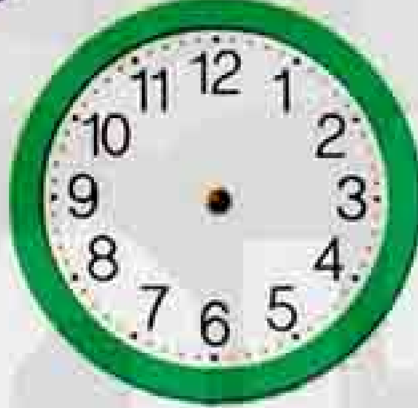
c



It is half past five

.... : ....

d



....

6 : 50

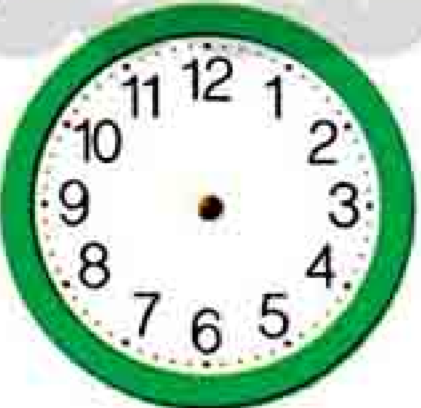
e



It is twenty five to four

.... : ....

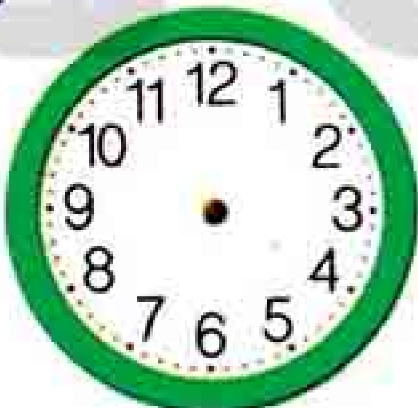
f



....

11 : 25

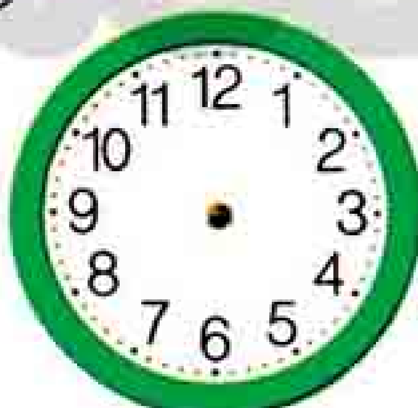
g



It's third past 4

.... : ....

h



It's third to 4

.... : ....

3 Draw the two hands as in the example :



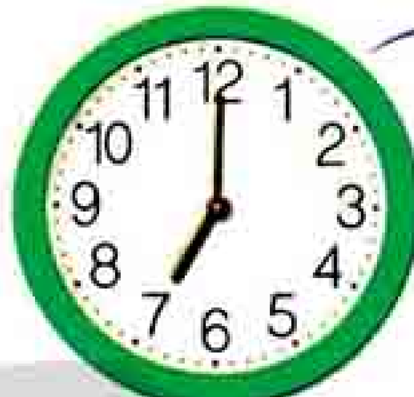


now

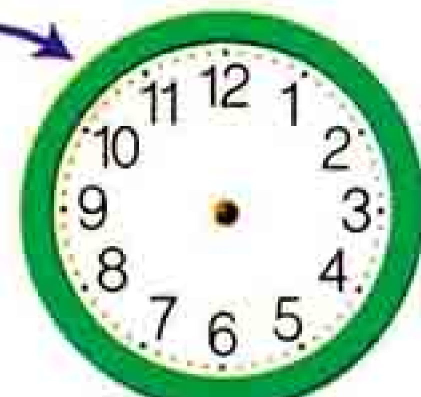


after an hour

(a)

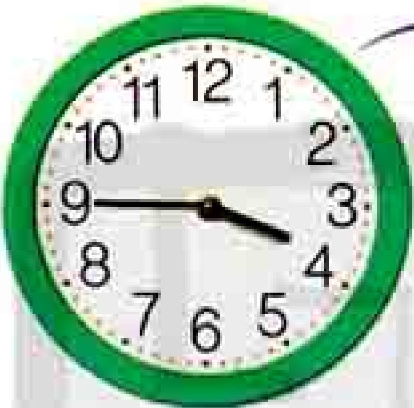


now

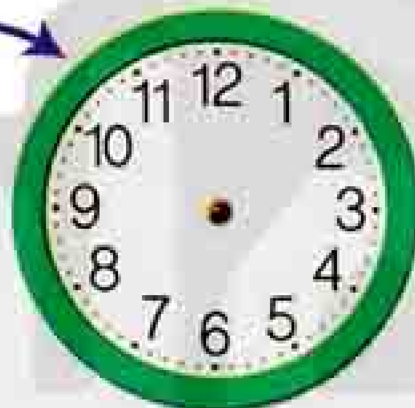


after 2 hours

(b)



now

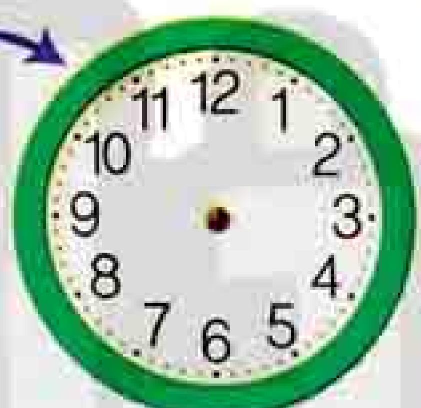


after 3 hours

(c)

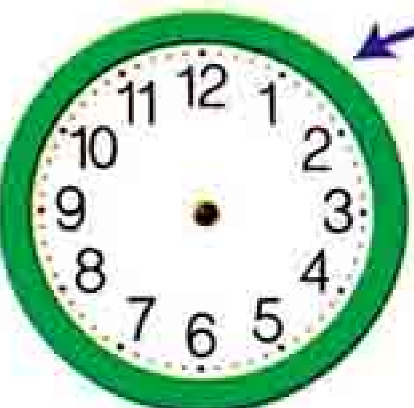


now

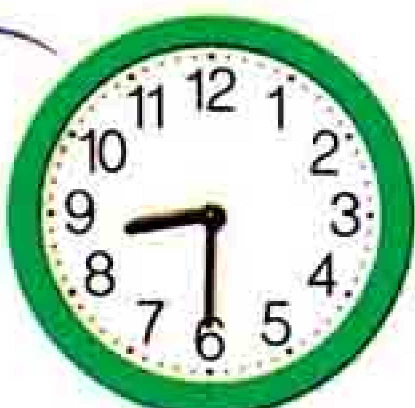


after one hour and half

(d)

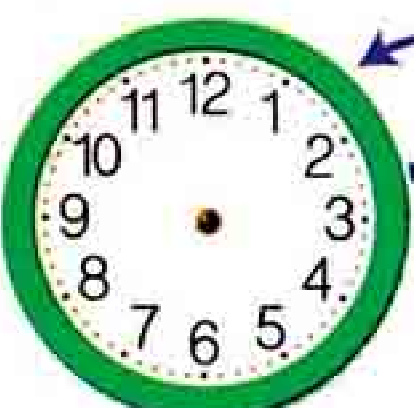


an hour ago

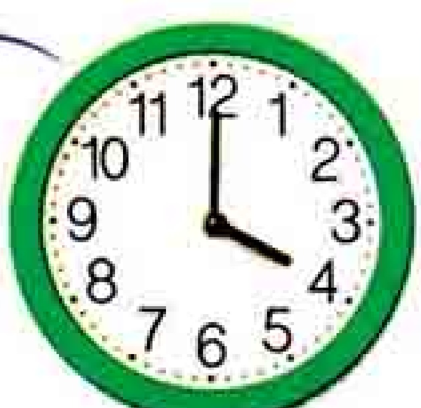


now

(e)



2 hours ago



now

4 Complete each of the following :

(a) The months of the year are : .... , ... , ... , ... , ... , ... , ... , ... , ... , ... , ... , ...

(b) The ordinal numbers corresponding the months are : January (1^{st}) , February (2^{nd}) , ... , ... , ... , ... , ... , ... , ... , ... , ... , ...

(c) The first month of the year is .... and the last one is ....

(d) The third month of the year is .... and the seventh one is ....

(e) The sixth month of the year is .... and the twelveth one is ....

(f) The month just after March is .... and just after September is ....

(g) The month just before February is .... and just before December is ....

(h) The days of the week are : .... , ... , ... , ... , ... , ... , ...

(i) 1 year = ... months.

(j) 1 week = ... days.

(k) The months that have 30 days are ....

(l) The months that have 31 days are ....

(m) The day just after Monday is .... and just after Friday is ....

(n) The day just before Sunday is .... and just before Thursday is ....

5 Complete each of the following as in the example :



EXAMPLE :

- **2 years = 24 months.**
- **36 months = 3 years.**

(a) 4 years = ... months.

(b) One year and two months = ... months.

ⓒ Two years and a half = ………… months.

ⓓ 25 months = ………… years and ………… month.

ⓔ 6 months = ………… year.

ⓕ 3 months = ………… year.

ⓖ 27 months = ………… years.

ⓗ 60 months = ………… years.

6 Complete each of the following as in the example :



EXAMPLE :

- **3 weeks = 21 days.**
- **35 days = 5 weeks.**

ⓐ 4 weeks = ………… days.

ⓑ 5 weeks and 4 days = ………… days.

ⓒ 49 days = ………… weeks.

ⓓ 15 days = ………… weeks and ………… day.

ⓔ 15 days and 13 days = ………… weeks.



7 Complete each of the following as in the example :



EXAMPLE :

- **4 days = 96 hours.**
- **48 hours = 2 days.**

ⓐ 📖 3 days = ………… hours.

ⓑ 10 days = ………… hours.

ⓒ 📖 A day + 5 hours = ………… hours.

ⓓ 4 days and 4 hours = ………… hours.

ⓔ 2 days and a half = ………… hours.

ⓕ 3 days and a quarter = ………… hours.

ⓖ 72 hours = ………… days.



(h) 32 hours = ... day and .... hours.

(i) 12 hours = ... day.

(j) 6 hours = ... day.

(k) 45 hours = 2 days – .... hours.

8 **Complete each of the following as in the example :**



EXAMPLE :

- **2 hours = 120 minutes.**
- **240 minutes = 4 hours.**



(a) One hour = ... minutes.

(b) 📖 3 hours = ... minutes.

(c) 6 hours and 10 minutes = ... minutes.

(d) 📖 $\frac{1}{3}$ hour = ... minutes.

(e) 1 hour and a half = ... minutes.

(f) 2 hours and a quarter = ... minutes.

(g) 1 hour and a third = ... minutes.

(h) 300 minutes = ... hours.

(i) 125 minutes = ... hours and .... minutes.

(j) 30 minutes = ... hour.

(k) 15 minutes = ... hour.

(l) 20 minutes = ... hour.

(m) 75 minutes = ... hour.

(n) 150 minutes = ... hours.

9 📖 **How many ?**

(a) How many hours are there in two days ? ....

(b) How many minutes are there in 10 hours ? ....

ⓒ How many minutes are there in half an hour ? ....

ⓓ How many hours are there in ten days ? ....

ⓔ How many minutes are there in 4 hours ? ....

ⓕ How many minutes are there in a quarter of an hour ? ....

10 Complete each of the following as in the example :



EXAMPLE :

- **2 minutes = 120 seconds.** • **180 seconds = 3 minutes.**

ⓐ 10 minutes = ... seconds.

ⓑ 3 minutes and 5 seconds = ... seconds.

ⓒ 120 seconds = ... minutes.

ⓓ 630 seconds = ... minutes and .... seconds.



ⓔ 30 seconds = ... minute.

ⓕ 20 seconds = ... minute.

ⓖ 15 seconds = ... minute.

ⓗ 90 seconds = ... minute.

11 Choose the correct answer :

ⓐ One of the time units is .... (metre *or* gram *or* minute)

ⓑ 2 years and 6 months = ... months. (8 *or* 26 *or* 30)

ⓒ One year and two months = ... months. (12 *or* 14 *or* 24)

ⓓ $\frac{1}{4}$ year = ... months. (12 *or* 6 *or* 3)

ⓔ Half a day , 8 hours = ... hours. (20 *or* 24 *or* 12)

ⓕ 3 weeks = ... days. (7 *or* 21 *or* 30)

ⓖ One day , 6 hours = ... hours. (30 *or* 25 *or* 36)

ⓗ 100 minutes = One hour and .... minutes. (20 *or* 40 *or* 50)

12 Put the suitable relation (< , = or >) in the blanks :



EXAMPLE :

- 2 years [>] 20 months. (24 months)
- 21 days [=] 3 weeks. (21 days)

ⓐ 1 year ...... 1 month.

ⓑ A day ...... 12 hours.

ⓒ 3 years ...... 36 months.

ⓓ 4 weeks ...... 21 days.

ⓔ An hour and 25 minutes ...... 125 minutes.

ⓕ A day and 6 hours ...... 30 hours.

ⓖ 3 hours and 20 minutes ...... 200 minutes.

ⓗ Two thirds of 1 hour ...... half an hour.

ⓘ 36 hours ...... 2 days.

ⓙ One year and 3 months ...... 14 months.

ⓚ A year and a half ...... 16 months.

ⓛ The number of days in March ...... 30 days.



13 Arrange each of the following ascendingly :

ⓐ Three hours , 100 minutes , an hour and half.

The order is : ....

ⓑ 30 hours , 1 day and 5 hours , 2 days , 45 hours.

The order is : ....

ⓒ Two days , 30 hours , a day and two hours.

The order is : ....

ⓓ A day , 25 hours , 48 hours.

The order is : ....

ⓔ 75 minutes , 1 hour , 55 minutes.

The order is : ....

ⓕ 2 years , a year and half , 20 months , 25 months.

The order is : ....

Think And Answer

ⓐ Complete each of the following :

① Start time End time

...... : ...... P.M. ...... : ...... P.M.

.... hours have passed.

② Start time End time

...... : ...... A.M. ...... : ...... P.M.

.... hours and .... minutes have passed.

ⓑ Which was longer ?

① A basketball match began at 3 : 15 P.M. and finished at 3 : 55 P.M. Another one began at 3 : 30 P.M. and finished at 4 : 10 P.M. Which match was longer ?

② Ayman went on a trip to Hurghada on 26/2/2007 and got back to Cairo on 4/3/2007 Bassem went on a trip to Sharm El-Sheikh on 26/2/2008 and got back to Cairo on 4/3/2008

Which trip was longer ?



General exercise on unit four from the school book

1 Choose the correct answer from those between brackets :

1. The distance between Cairo and Alexandria is measured by .... (cm. or m. or km.)
2. The distance between Cairo and Jeddah is measured by .... (cm. or m. or km.)
3. The suitable unit for measuring the height of a buliding is .... (cm. or m. or km.)
4. The length of the swimming pool is measured by .... (cm. or m. or km.)
5. The child's weight of 6 years old is measured by .... (gm. or kg. or km.)
6. The weight of the ring = ... (14 gm. or 4 kg. or 14 km.)
7. The orange's weight = ... (200 gm. or 500 gm. or 750 gm.)
8. The number of the year's days = ... days. (360 or 365 or 375)
9. The temperature of the normal person = ...°C (35 or 37 or 42)
10. The day = ... hours. (7 or 60 or 24)
11. One day + 5 hours = ... hours. (17 or 24 or 29)
12. .... is of length units. (gram or kilogram or metre)
13. The unit of measuring weights is .... (hour or kg. or km.)
14. The suitable unit for measuring the distance between two countries is .... (m. or kg. or km.)
15. One year and two months = ... months. (12 or 14 or 24)
16. Two hours and a quarter = ... minutes. (115 or 135 or 215)
17. The class period time is measured by .... (thermometer or day or minutes)

General Exercise

2 Complete :

1. 4 metres = ... centimetres.
2. 3 weeks = ... days.
3. 3 kilograms = ... grams.
4. 1 year and two months = ... months.
5. 2 hours and a quarter = ... minutes.
6. 1 hour and 50 minutes = ... minutes.

3 Answer the following questions :

1. What is the unit used to measure temperature ? ....
2. What is the normal human temperature ? ....
3. How many minutes are there in half of an hour ? ....

4 Complete :



1. 75 metres = 75 × .... = ... cm.
2. 25 km. = 25 × .... = ... metres.
3. 127 metres = 127 × .... = ... cm.
4. 17 kilometres = 17 × .... = ... m.
5. 3 kilograms = 3 × .... = ... gm.
6. 57 kilograms = 57 × .... = ... gm.
7. 3 450 grams = ... kg. + ... gm.
8. 5 kilograms and 125 grams = ... + ... = ... gm.
9. 9 kilograms and quarter of kg. = ... + ... = ... gm.
10. 6 kilograms and quarter of kg. = ... + ... = ... gm.

⑪ 8 kilograms and 375 grams = ... + ... = ... gm.

⑫ One hour and 25 minutes = ... + ... = ... min.

⑬ One hour and .... minutes = 80 minutes.

⑭ Two hours = ... minutes.

5 Put the suitable relation (> , < or =) in the blanks :

① 250 gm. $\frac{1}{4}$ kg.

② 4 kg. and 50 gm. 450 gm.

③ One hour and 25 minutes 145 minutes

④ 36 hours two days

⑤ 3 days and 5 hours 77 hours

⑥ One and half a day 37 hours

⑦ One year and 3 months 14 months

⑧ 23 hours one day

6 What is the suitable unit ?

① What is the suitable unit for measuring the distance between two countries ? ....

② What is the suitable unit for calculating the time of a school period ? ....

③ What is the sutiable unit for measuring the weight of gold artifacts ? ....

7 Arrange ascendingly :

① 2 400 grams , 250 grams , 1 kilogram.

....

② 50 days , 200 hours , 10 days.

....

③ 3 kilometres , 4 000 centimetres , 500 metres , 2 000 metres.

....

8 Arrange the following measuring units ascendingly and descendingly second time :

① 80 hours , two days , 20 hours.

The ascending order is : .... , ... and ....

The descending order is : .... , ... and ....

② Two and half months , 80 days , 48 days.

The ascending order is : .... , ... and ....

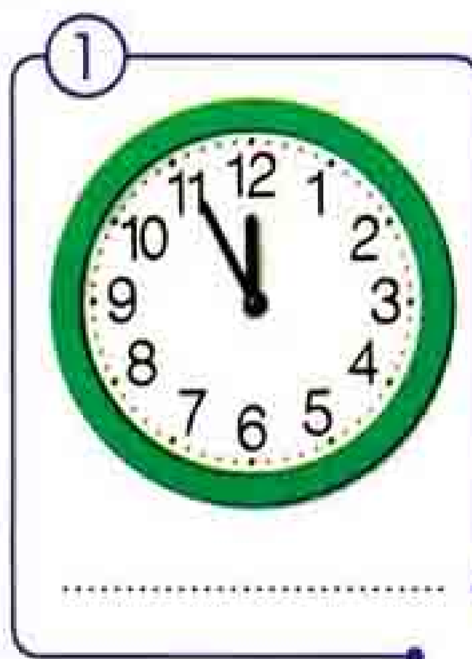
The descending order is : .... , ... and ....

③ 3 metres and a quarter of metre , 315 cm. , half a metre.

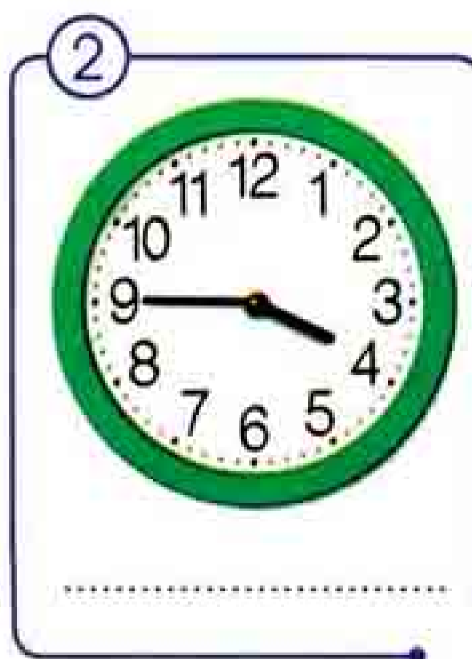
The ascending order is : .... , ... and ....

The descending order is : .... , ... and ....

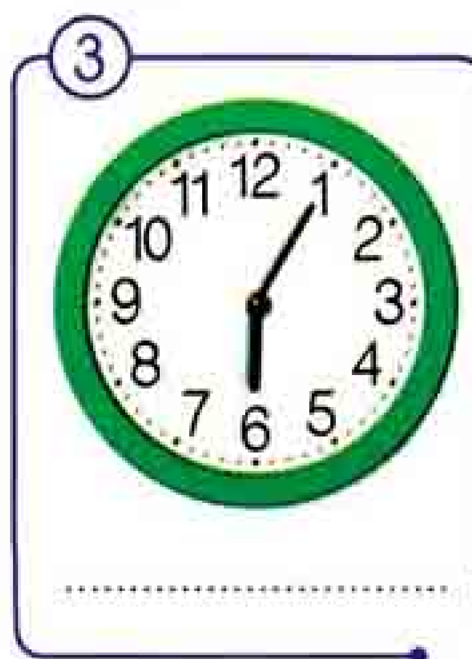
9 Till the time in each of the following :

① 

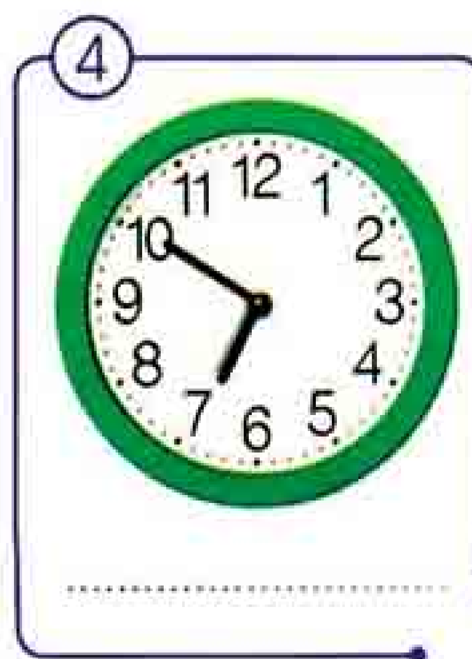
....

② 

....

③ 

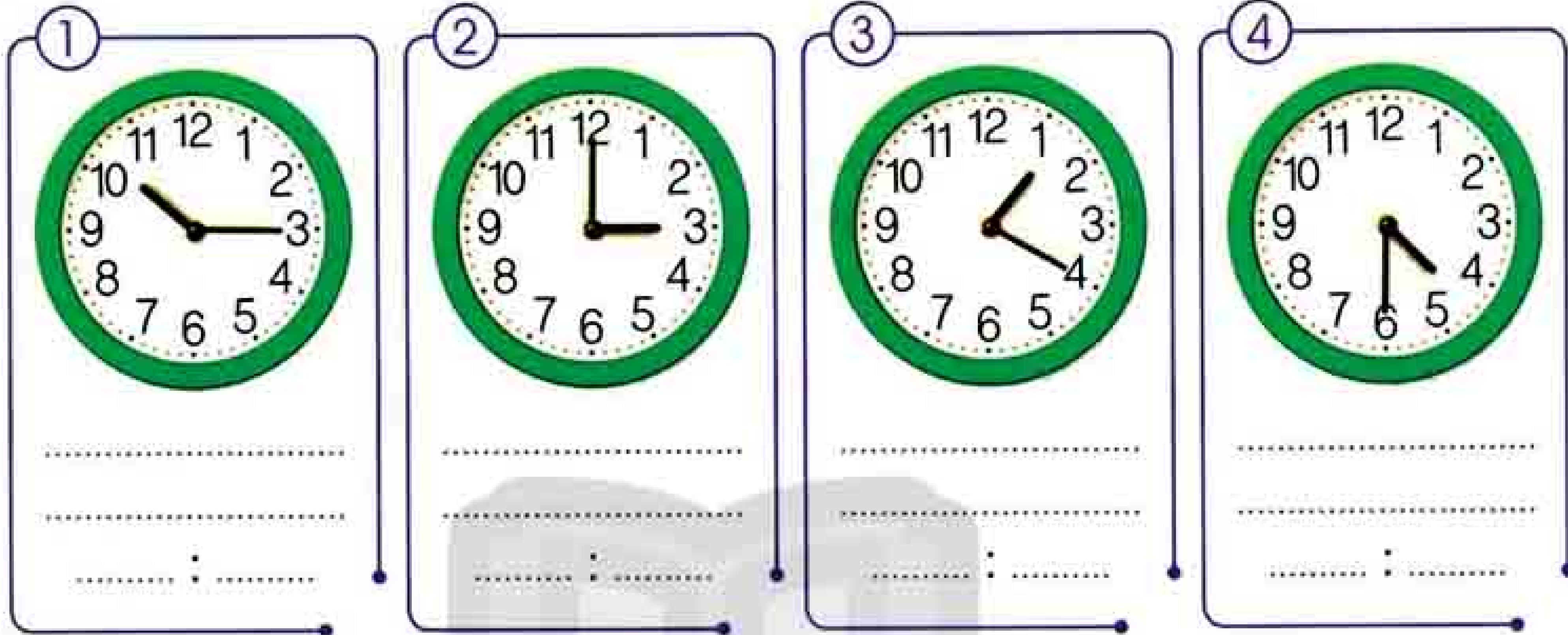
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④ 

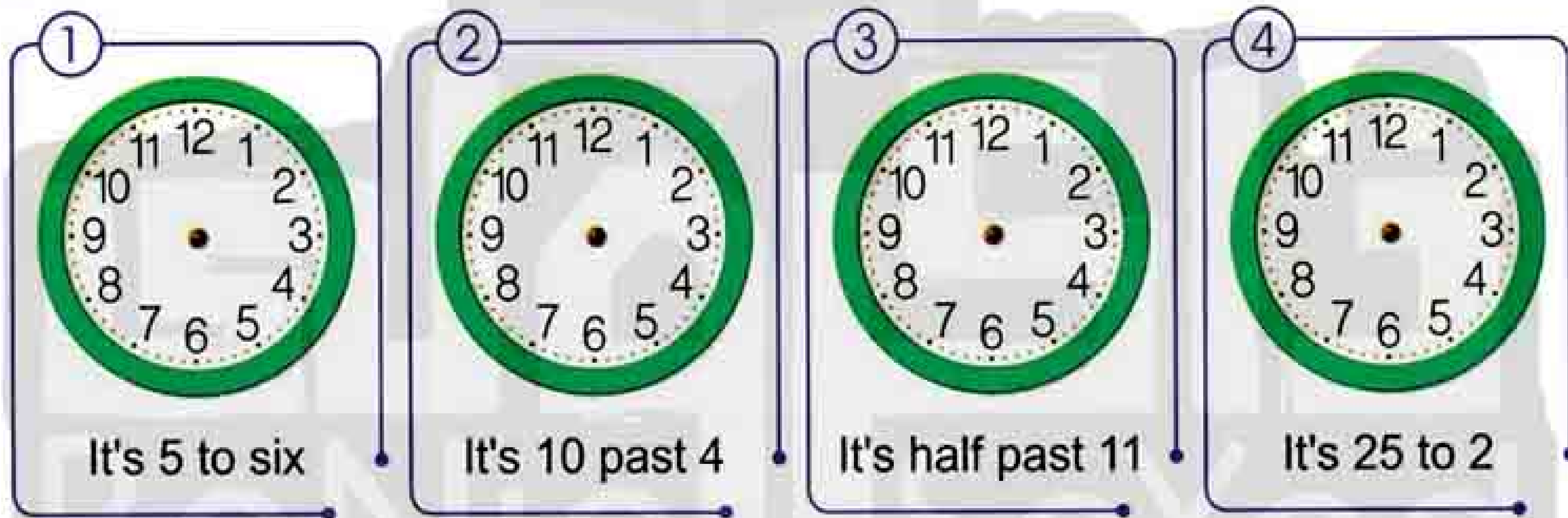
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Unit 4

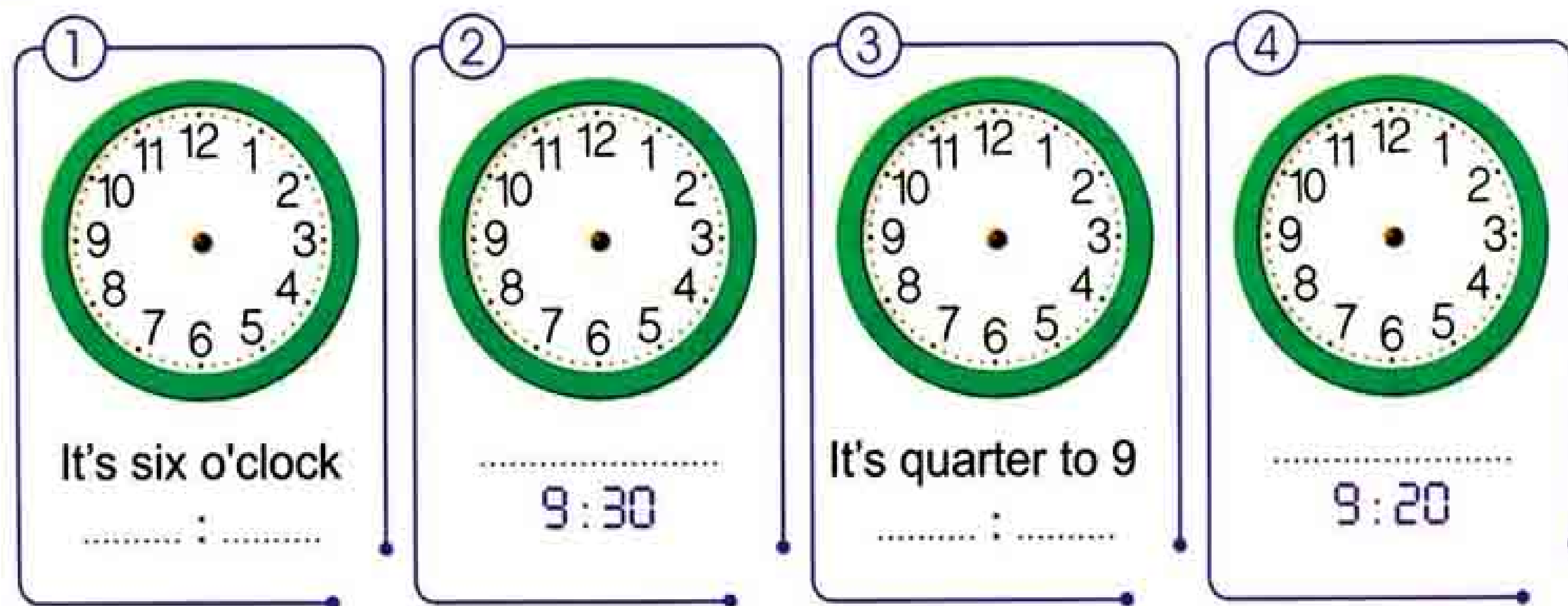
10 Write the time :



11 Draw the hands of the watch :



12 Draw the two hands , then complete :





Activities from the School book

1 ⓐ What is the agency that studies weather conditions and expectation in Egypt ?

....

(Have you visited it on a school trip ?)

ⓑ What kind of clothes would you advise your classmates to wear on the days with the following temperatures ?

	Higher	:	Lower	
(1)	37°C	:	30°C	....
(2)	15°C	:	10°C	....
(3)	22°C	:	17°C	....

2 ⓐ What is the birthday of someone who celebrates it only once every 4 years ?

....

ⓑ Which is heavier : 10 kilograms of iron or 10 kilograms of cotton ?

....

3 How long is the period of time that starts on the beginning of Monday , 15 October , 2009 and ends with the end of Saturday , 27 October 2009 ?

....

4 A person started a job on the first of March and finished it at the end of August of the same year. How many months did he spend doing this job ?

....

5 Medhat walks a distance of 2 kilometres in 20 minutes. How much time does it take him to walk a distance of six kilometres if he walks consistently (with the same speed) ? What is the distance he covers in an hour and a half ?

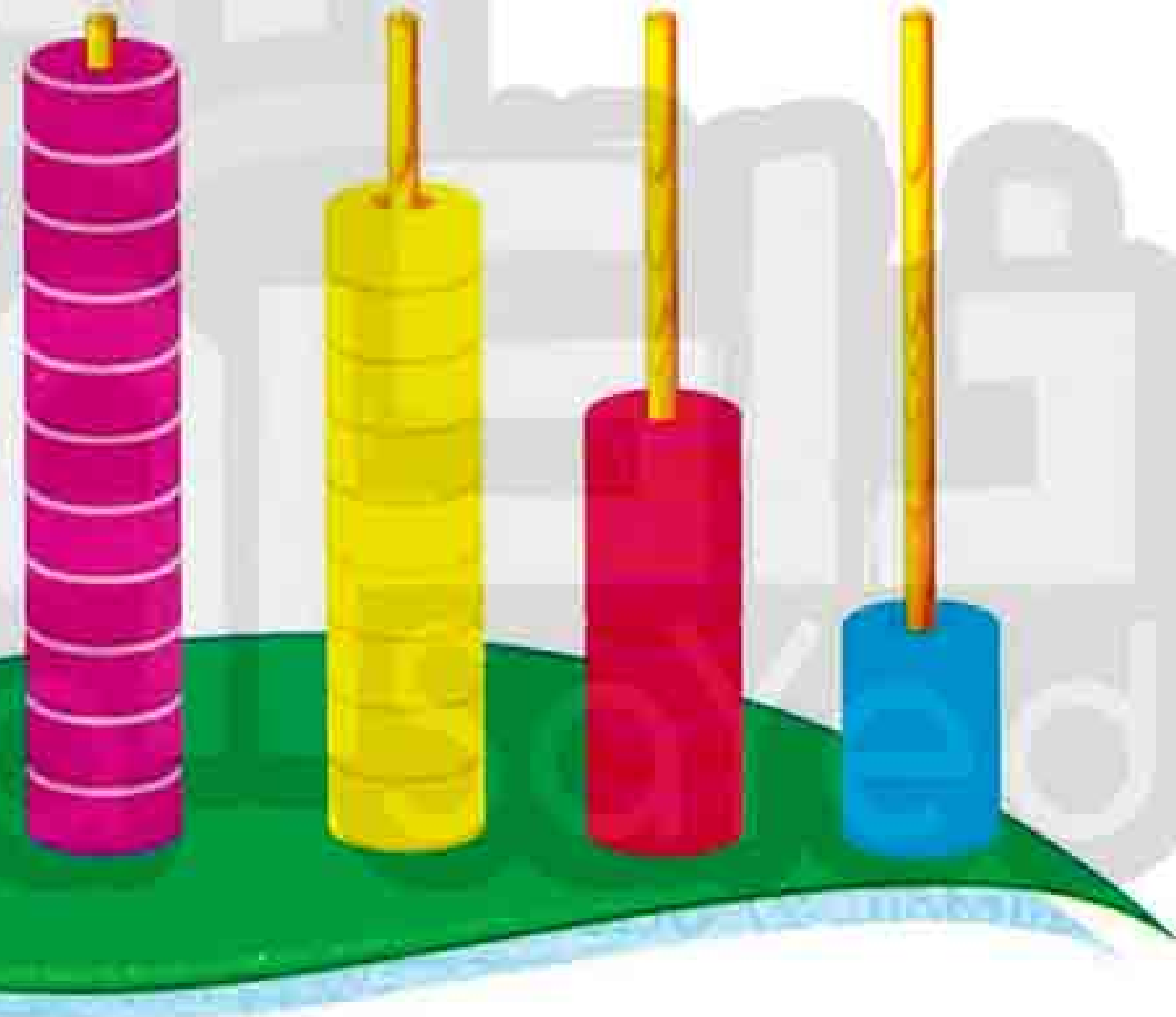
....

UNIT 5

Statistics and probability







- **Lesson 1 :** Representing data.
- **Lesson 2 :** Probability.

- A general exercise from the school book.
- Activities from the school book.



Unit 5 LESSON 1

Representing data

- **The following examples explain how to represent data by :**

  (1) **Bar-lines graph.** (2) **Broken line graph.**

Example 1

The following table shows the kinds of activities and the number of persons in each one in a small certain club :

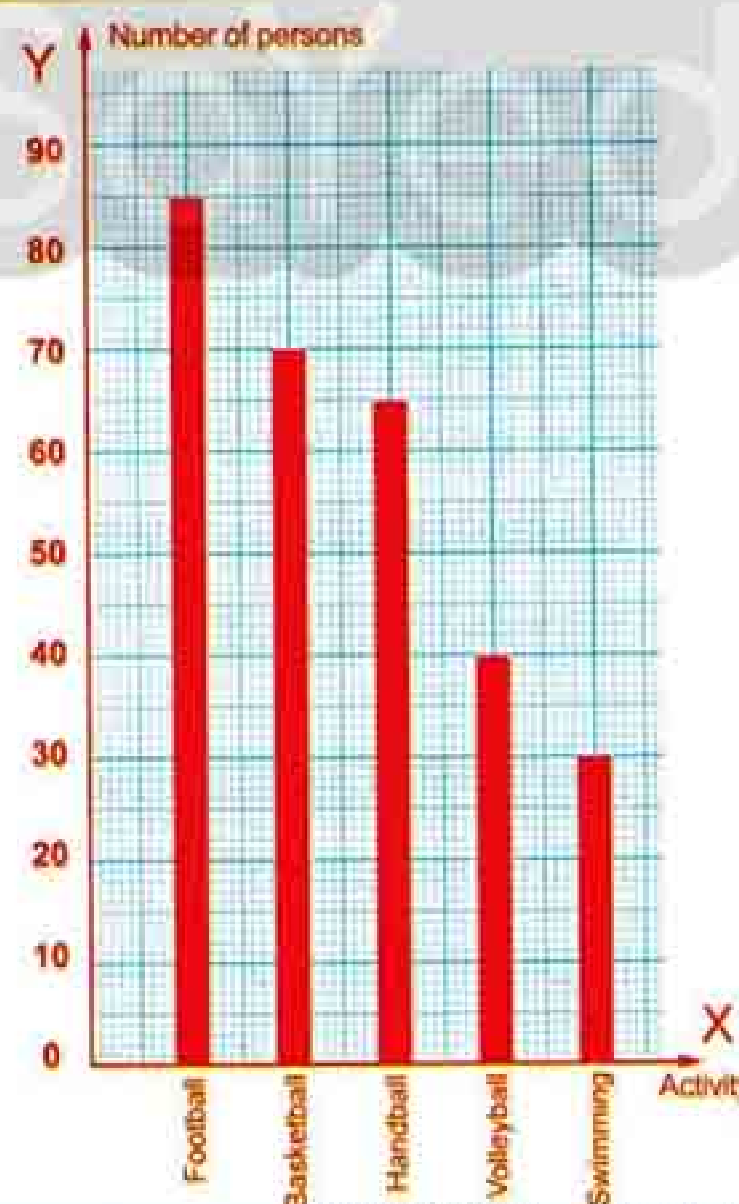
Kind of activity	Football	Basketball	Handball	Volleyball	Swimming
Number of persons	85	70	65	40	30

Represent this data by a bar-lines graph.

Solution

(1) Draw a horizontal ray $\overrightarrow{OX}$ to represent the kinds of activities , by dividing this horizontal axis $\overrightarrow{OX}$ into equal parts. Each part shows one of these activities.

(2) Draw a vertical ray $\overrightarrow{OY}$ to represent the number of persons by dividing this vertical ray $\overrightarrow{OY}$ into equal parts. Each part shows 10 persons as shown in the opposite figure.



(3) Since the number of persons in a football game is 85 ، so from the point on $\overrightarrow{OX}$ which represents football ، draw a bar-line perpendicular to $\overrightarrow{OX}$ till you reach the number 85 on the vertical axis $\overrightarrow{OY}$

(4) Also from the point that represents basketball ، draw a bar-line till you reach the number 70
and so on for the other activities ، as shown in the last figure.

Example 2

The following table shows the amounts of money that Bassem saved in five months in pounds :

Months	March	April	May	June	July
Amount of money	30	40	25	25	10

Represent this data by a broken line graph.

Solution

(1) Draw $\overrightarrow{OX}$ to represent the months.

(2) Draw $\overrightarrow{OY}$ to represent the amount of money.

(3) For each month ، plot a point represents the amount of money that Bassem saved.

(4) Join each two consecutive points with a line segment to get the required broken line as is the opposite figure.



Exercise 17

From the school book

1 The following figure shows the donations in pounds of five citizens to one of the orphanages. From the drawing , complete the table :

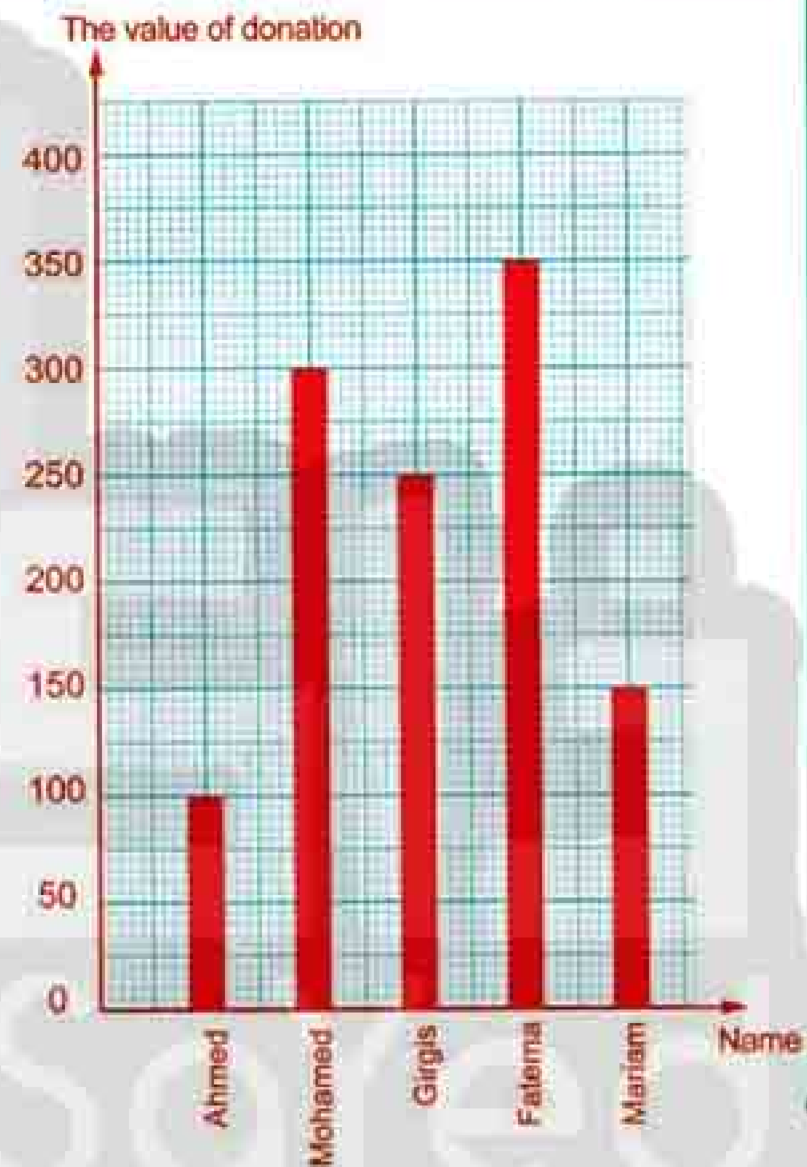
Name	Ahmed	Mohamed	Girgis	Fatema	Mariam
The value of donation	....	300	....	....	150

ⓐ The greatest donation = ... pounds.

ⓑ The smallest donation = ... pounds.

ⓒ The difference between the greatest donation and the smallest donation = ... pounds.





2 The following bar-lines show the number of visitors to Cairo Tower in 6 days.

According to the figure , answer the following questions :

ⓐ Record this data in the following table :

Day	Sat.	Sun.	Mon.	Tues.	Wed.	Thur.
No. of visitors	....	....	....	....	....	....

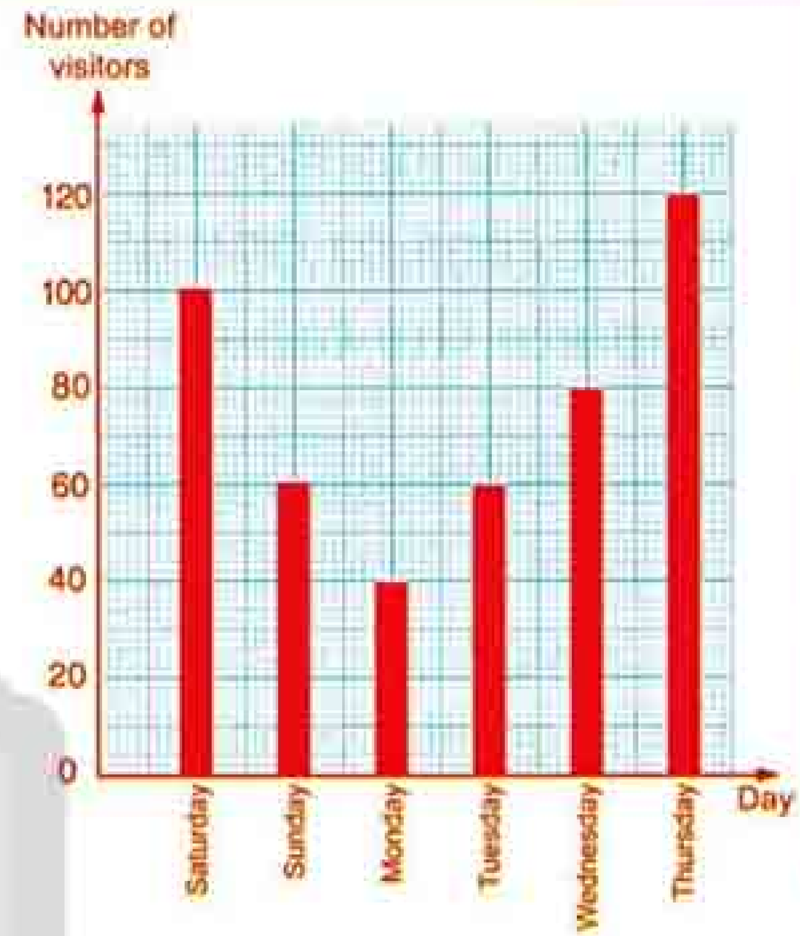
ⓑ What was the number of visitors on Wednesday ? ....

ⓒ In which day was the number of visitors the greatest ? ....

ⓓ In which day was the number of visitors the smallest ? ....

ⓔ In which days were the numbers of visitors equal ? ....





3 The following bar-lines show the number of pupils who share in the school activities. From the figure , complete each of the following :

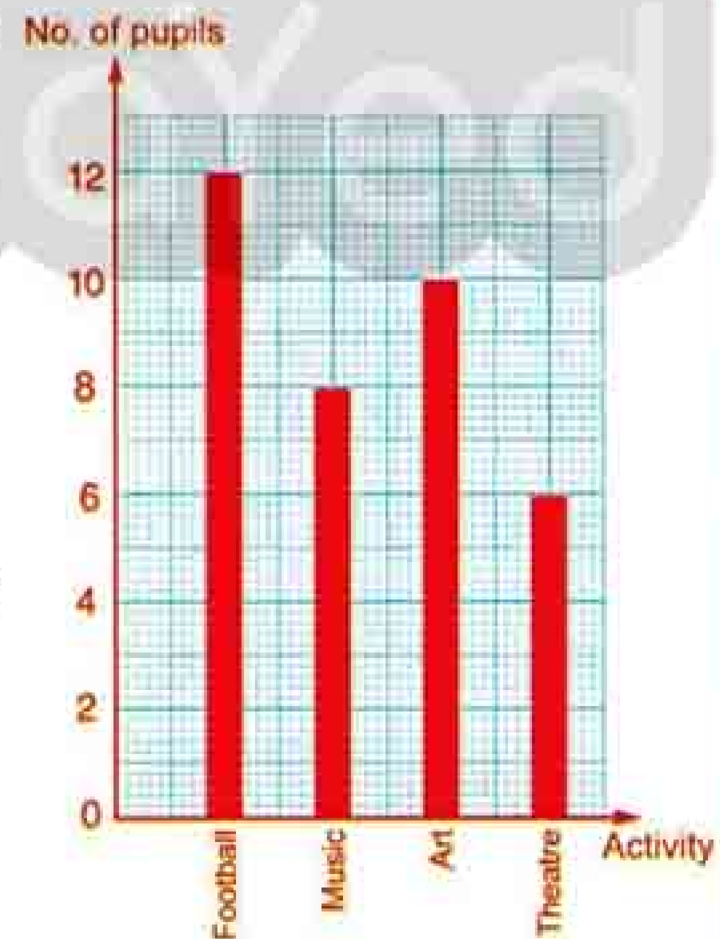
ⓐ The number of pupils who share in art is ....

ⓑ The number of pupils who share in music is greater than the number of pupils who share in ....

ⓒ The difference between the numbers of pupils who share in football and music = ... − .... = ...

ⓓ The sum of pupils who share in all these activities = ... + ... + ... + ...
= ....

ⓔ Among those pupils , the most favourite activity is .... and the least favourite activity is ....



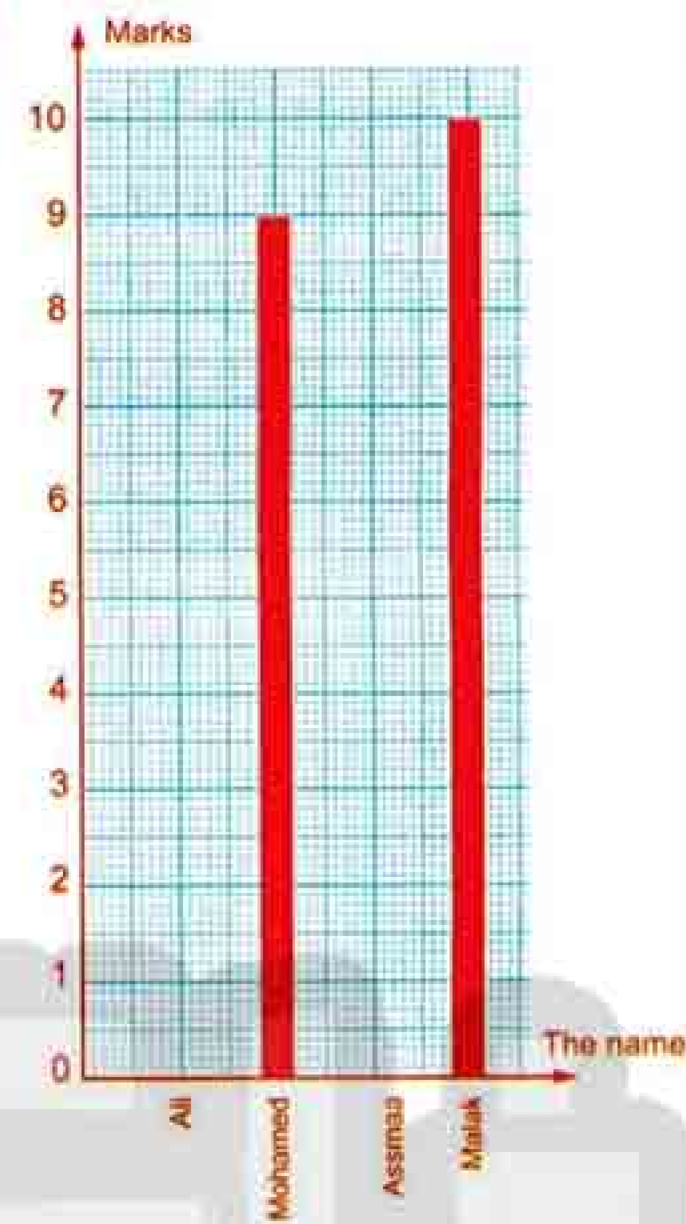


4 The following table shows the marks of 4 pupils in science :

The name	Ali	Mohamed	Assmaa	Malak
Marks	7	....	8	....

Complete the table from graph , then complete representing the bar-line graph.





5 Complete the following table and the following bar-lines :

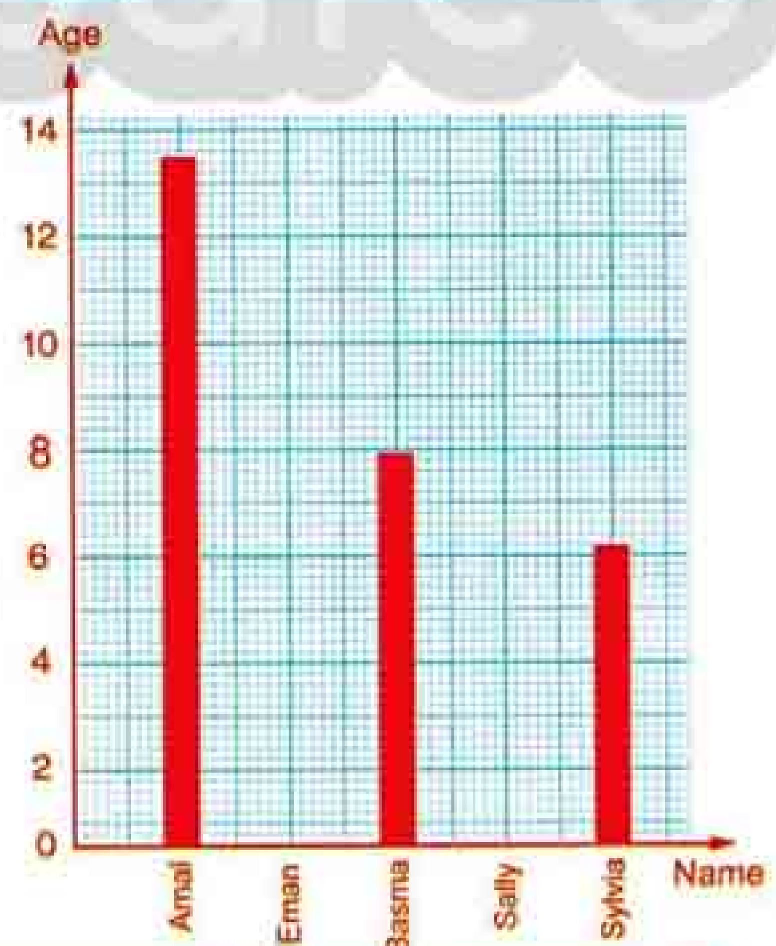
Name	Amal	Eman	Basma	Sally	Sylvia
Age	....	10	....	12	....

, then complete the following :

(a) The oldest girl is ....

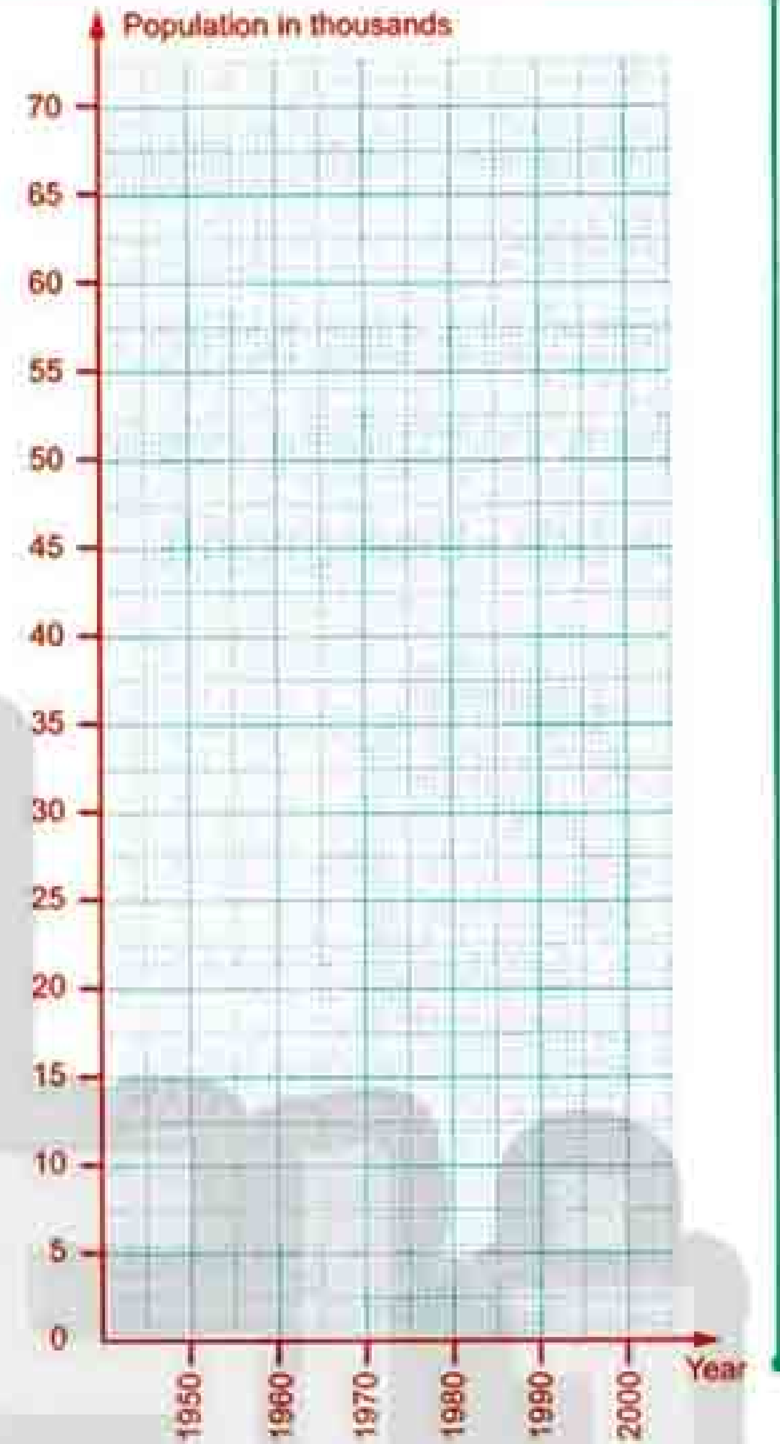
(b) The youngest girl is ....





6 The following table shows the approximate population of one of the villages in the Arab Republic of Egypt in thousands (approximately) in the given years, complete the graph by using of bar-lines :

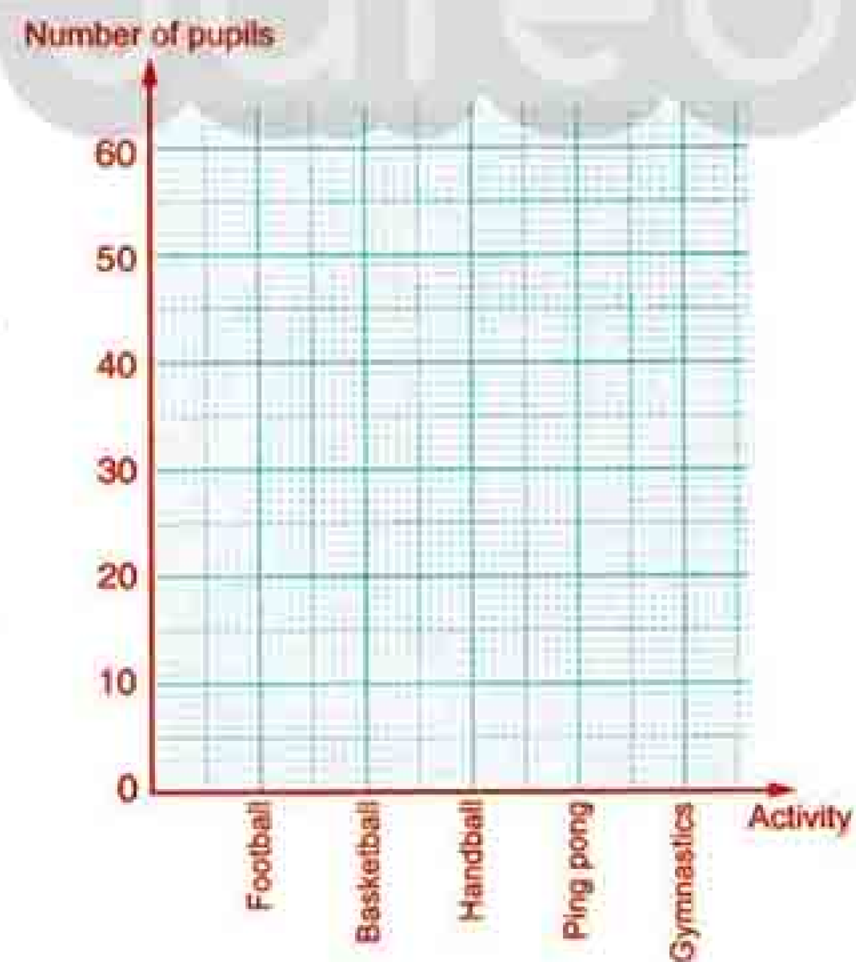
Year	Population in thousands
1950	20
1960	25
1970	40
1980	50
1990	55
2000	70



7 The following table shows the number of pupils participating in sport activities :

Activity	Number of pupils
Football	60
Basketball	40
Handball	30
Ping pong	50
Gymnastics	20

Represent these data by bar-lines.



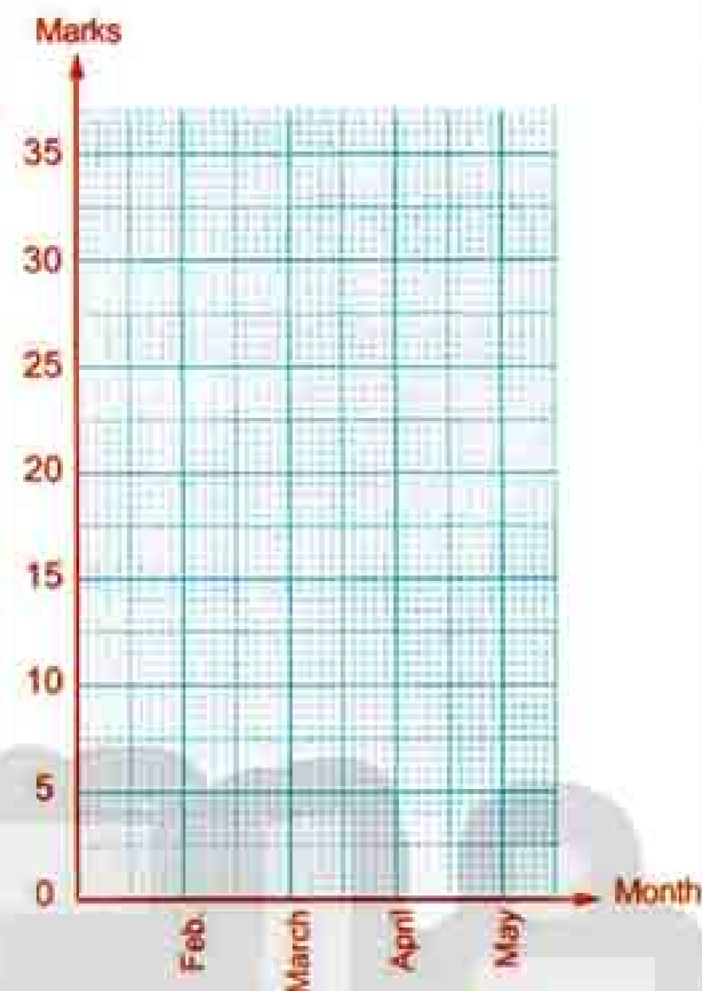
8 The following table shows the marks of Marwan in maths during 4 months. Represent these data by a broken line and complete the following :

Month	Feb.	March	April	May
Marks	25	20	15	30

ⓐ Marwan got the highest mark in ....

ⓑ The difference between the highest and the lowest marks = ... = ...

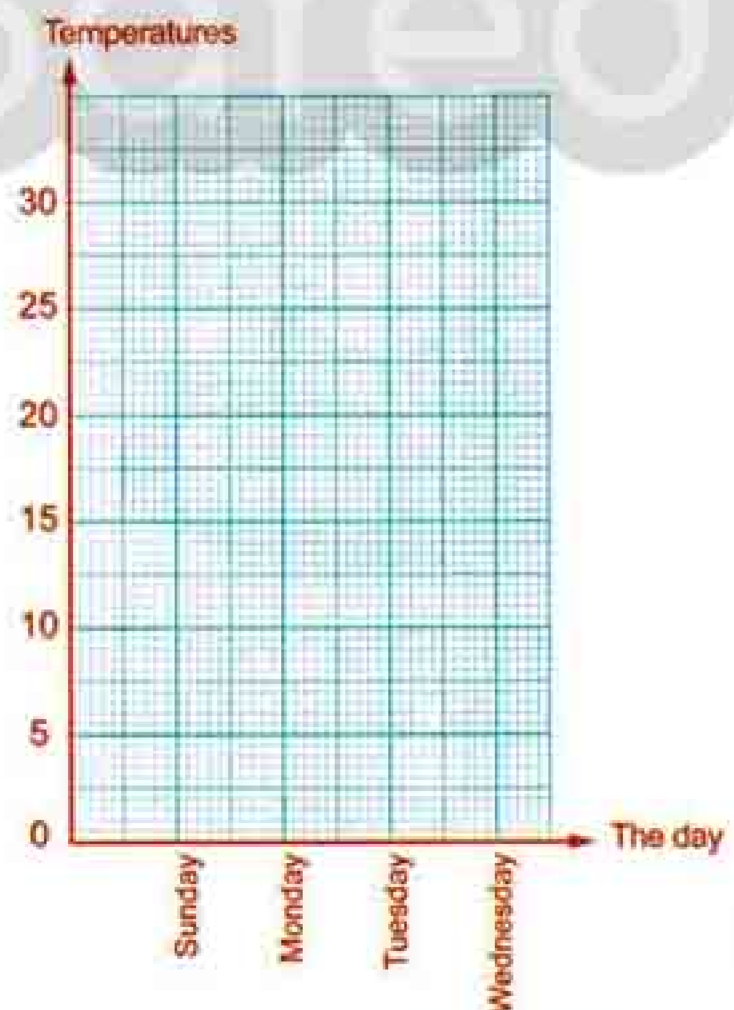




9 The following table shows highest temperatures during four days in a city :

The day	Temperatures
Sunday	25
Monday	30
Tuesday	20
Wednesday	25

Represent this data by a broken line.



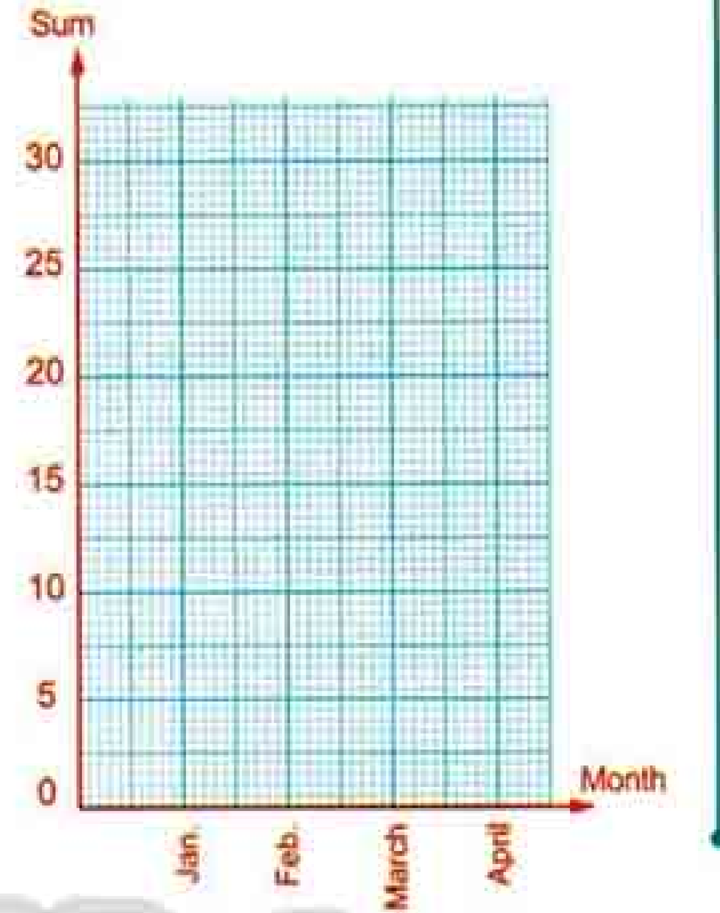
10 **The following table shows what Ahmed saved during four months in pounds :**

Month	Jan.	Feb.	March	April
Sum	25	15	30	20

Represent this table using broken line , then complete :

ⓐ The smallest sum Ahmed saved in ....

ⓑ The biggest sum Ahmed saved in ....

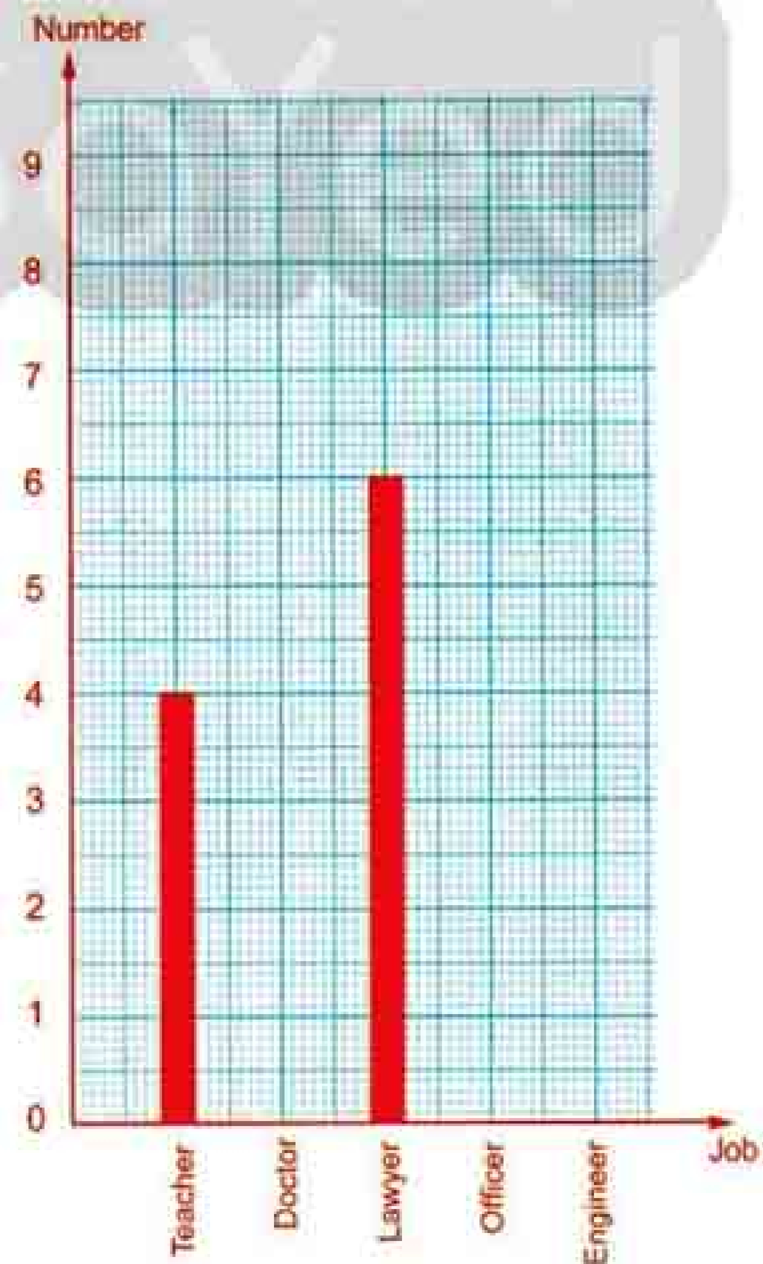


Think And Answer

The following table and the opposite bar-lines show the jobs that 32 pupils prefer to get in the future and their numbers.

Complete the table and the bar-lines :

Job	Number
Teacher	....
Doctor	7
Lawyer	....
Officer	8
Engineer	....
Total	32





LESSON 2

Probability
Certain /Possible/Impossible

- There are events that are **impossible** to happen , some are **possible** to happen and some others are **certain** to take place.



- **"The sun will rise tomorrow"**
  is an event that is certain to happen.
  Think of another event that is certain to happen.



- **"The man can live on the moon forever"**
  is an impossible event.
  Name another event that is impossible.

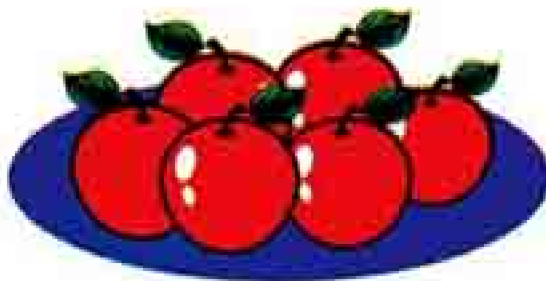


- **"My grade will improve if I study harder"**
  is an event that is possible to happen.

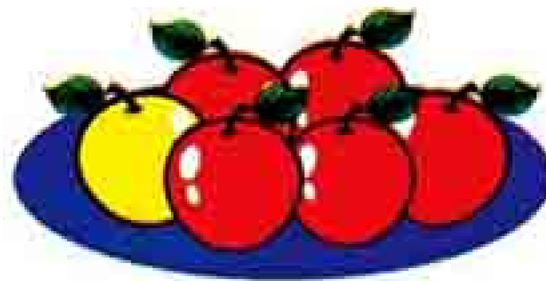
Determining the degree of expectation

If you close your eyes and pick an apple in each case of the following cases.

- **What is the probability of picking a red apple from each plate ?**



The probability of picking a red apple is a certain.



The probability of picking a red apple is a great expectation.



The probability of picking a red apple is a moderate expectation.

Unit 5



The probability of picking a red apple is impossible.



The probability of picking a red apple is a weak expectation.

Calculating probability

Remarks :

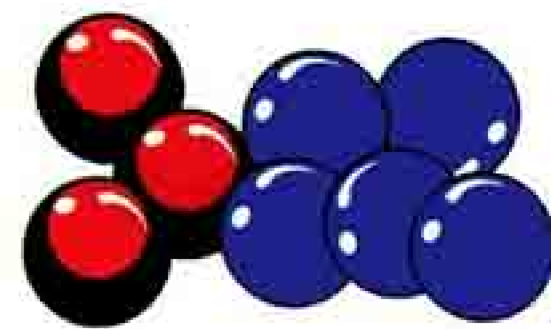
(1) The probability of the impossible event = zero
(2) The probability of the certain event = 1
(3) The probability of the possible event is between zero and 1 (fraction).

Rule :

The probability of an event occurring = $\frac{\text{the number of possible ways the event can take place}}{\text{the total number of possible outcomes}}$

For Example :

From the opposite figure :



(1) The probability that the drawn ball is red

$= \frac{\text{the number of red balls}}{\text{the total number of balls}} = \frac{3}{8}$

(2) The probability that the drawn ball is blue

$= \frac{\text{the number of blue balls}}{\text{the total number of balls}} = \frac{5}{8}$

(3) The probability that the drawn ball is white

$= \frac{\text{the number of white balls}}{\text{the total number of balls}} = \frac{0}{8} = 0$ "an impossible event"

Exercise 18

📖 *From the school book*

1 Complete each of the following by writing "certain", "possible" or "impossible" :

ⓐ It is .... to find two moons in the sky one night.
ⓑ It is .... to get the full mark in your exam.
ⓒ It is .... that the River Nile runs in Egypt.
ⓓ 📖 It is .... that the sun rises in the morning.
ⓔ It is .... to go on a trip with your friends.
ⓕ 📖 It is .... that I will get a high grade in mathematics.
ⓖ 📖 It is .... to find a man three metres high.
ⓗ It is .... that the pyramids are in Egypt.
ⓘ It is .... to love your parents.
ⓙ It is .... to save L.E. 5 every month.
ⓚ 📖 It is .... to rain gold.
ⓛ It is .... that El-Ahly will win the next match.



2 Choose the correct answer :

ⓐ The cow is flying .... (certain *or* possible *or* impossible)
ⓑ The sun rises in the morning .... (certain *or* possible *or* impossible)
ⓒ The event of the sun rises in the west .... (certain *or* possible *or* impossible)
ⓓ The temperature decreases in winter .... (certain *or* possible *or* impossible)

Unit 5

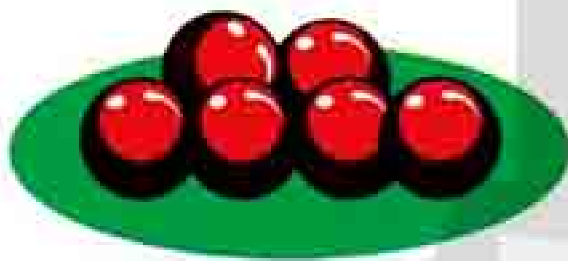
ⓔ The fish live in water .... (certain **or** possible **or** impossible)

ⓕ The pupil goes to school ....(certain **or** possible **or** impossible)

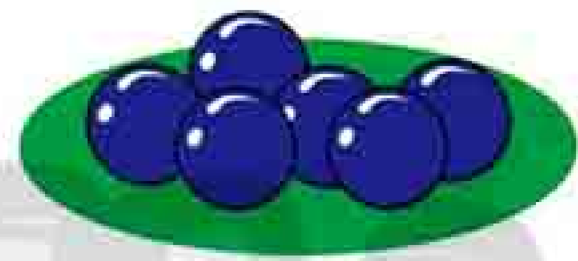
ⓖ Event that the day follows the night ....
(certain **or** possible **or** impossible)

ⓗ My hair will become green ....(certain **or** possible **or** impossible)

3 There are 3 plates of balls. If you close your eyes and draw one ball from each plate , complete the following by writing "red" , "yellow" or "blue" :


First plate


Second plate


Third plate

The first plate :

ⓐ It is certain to draw a .... ball.

ⓑ It is impossible to draw a .... ball.

ⓒ It is also impossible to draw a .... ball.

The second plate :

ⓐ It is possible to draw a .... ball.

ⓑ It is also possible to draw a .... ball.

ⓒ It is impossible to draw a .... ball.

The third plate :

ⓐ It is certain to draw a .... ball.

ⓑ It is impossible to draw a .... ball.

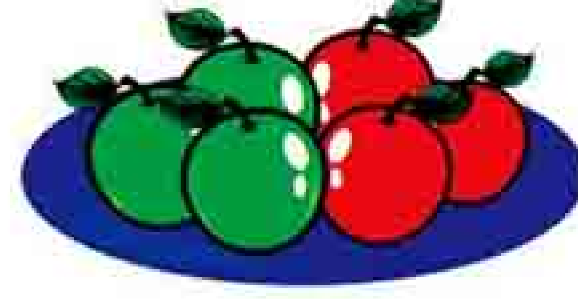
ⓒ It is also impossible to draw a .... ball.



4 There are 3 plates. If you close your eyes and draw one apple from each plate , complete by the number of the plate :


First plate


Second plate


Third plate

ⓐ The great probability that the drawn apple will be red is in the .... plate.

ⓑ The great probability that the drawn apple will be yellow is in the .... plate.

ⓒ The great probability that the drawn apple will be green is in the .... plate.

ⓓ The least probability that the drawn apple will be green is in the .... plate.

ⓔ The least probability that the drawn apple will be red is in the .... plate.

5 Using the figure in the previous question , complete by writing "great" , "moderate" , "weak" or "impossible" :

ⓐ The probability that the drawn apple from the first plate will be red is ....

ⓑ The probability that the drawn apple from the second plate will be red is ....

ⓒ The probability that the drawn apple from the first plate will be green is ....

ⓓ The probability that the drawn apple from the third plate will be yellow is ....

ⓔ The probability that the drawn apple from the third plate will be green is ....

6 **You have 3 cards numbered from 1 to 3**
If you close your eyes and choose one card , complete by writing "certain" , "possible" or "impossible" :



ⓐ It is .... that the number is less than 4
ⓑ It is .... that the number is less than 3
ⓒ It is .... that the number is less than 1

7 **You have 3 cards numbered by the numbers 2 , 4 and 6**
If you close your eyes and choose one card , complete by writing "odd" , "even" or "less than 5" :



ⓐ It is possible that the number is ....
ⓑ It is impossible that the number is ....
ⓒ It is certain that the number is ....

LESSON 2

Calculating Probability

8 Look at the figures and complete :

(a)

(1) The probability of the drawn ball being red = ...

(2) The probability of the drawn ball being yellow = ...

(3) The probability of the drawn ball being blue = ...



(b)

(1) The probability that the drawn ball is red = ...

(2) The probability that the drawn ball is yellow = ...

(3) The probability that the drawn ball is green = ...

(4) The probability that the drawn ball is blue = ...



(c)

(1) The probability of the drawn ball being blue = ...

(2) The probability of the drawn ball being red = ...



(d)

When we flip a coin once , we get a head or a tail :

(1) The probability of getting a head = ...

(2) The probability of getting a tail = ...



9 When you throw a dice "a die" once, complete each of the following : (Note that : The dice has 6 faces)

ⓐ The probability of getting the number 1 on the upper face = ...

ⓑ The probability of getting the number 2 on the upper face = ...

ⓒ The probability of getting an even number = ...

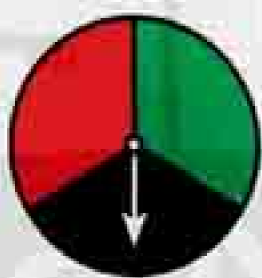
ⓓ The probability of getting an odd number = ...

ⓔ The probability of getting a number greater than 6 = ...

ⓕ The probability of getting a number smaller than 1 = ...

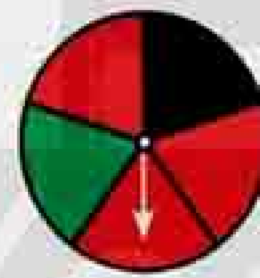
ⓖ The probability of getting a number smaller than or equal to 6 = ...

10 In each of the following spinners, after spinning the spinner once. Calculate the probability of landing on each shown colour :

ⓐ

Black

ⓑ

Green

ⓒ

Red

11 Choose the correct answer :

ⓐ The probability of the impossible event = ...

(0 or 1 or $\frac{1}{2}$ or $\frac{1}{3}$)

ⓑ The probability of a certain event is .... (0 or 1 or $\frac{1}{2}$ or $\frac{1}{3}$)

ⓒ If we flip a coin once , the probability of getting a head = ...

(1 or $\frac{1}{2}$ or 0 or 2)

(d) The probability of seeing one black dot on the upper face of a die when throwing it = ... ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{6}$)

(e) The possibility of seeing the number 3 on the upper face of a die when it is thrown = ... ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{6}$ or 1)

(f) The probability of appearance 2 on the face of a dice = ... ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{6}$ or 2)

(g) When you draw a card from 8 cards numbered from 1 to 8 ، the probability of getting the number 4 is .... ($\frac{1}{2}$ or $\frac{1}{4}$ or $\frac{1}{8}$ or 4)

(h) A basket contains 5 white balls and 3 yellow balls. If you draw one ball ، the probability of getting a white ball = ... ($\frac{3}{5}$ or $\frac{3}{8}$ or $\frac{5}{8}$ or $\frac{5}{3}$)

(i) The number of pupils in a class is 50 pupils ، the number of boys is 20 and the number of girls is 30 ، if a pupil was absent is a day ، then the probability that the absent pupil is a boy = ... ($\frac{3}{5}$ or $\frac{2}{5}$ or $\frac{1}{20}$)

(j) A letter is selected randomly from the word "EGYPT" ، the probability of selecting the letter "P" is .... ($\frac{4}{5}$ or $\frac{1}{5}$ or $\frac{3}{5}$)

(k) A letter is selected randomly from the name "Mostafa" ، the probability of selecting the letter "a" is .... ($\frac{2}{5}$ or $\frac{1}{7}$ or $\frac{2}{7}$)

(l) A letter is selected blindly from the name "Hamada" ، the probability of choosing the letter "a" is .... ($\frac{1}{2}$ or $\frac{3}{5}$ or $\frac{5}{6}$)

Unit 5

Word Problems

ⓐ

In a class of 50 pupils , 29 are boys and 21 are girls. If we choose one of them , what is the probability that the chosen pupil is a boy ?

....

....



ⓑ

In a class of 40 pupils , 23 are boys and 17 are girls. One day , one of the pupils was absent. What is the probability of the absent pupil being a boy ? The probability = $\frac{\cdots\cdots}{\cdots\cdots}$ (Why ?)



ⓒ

A basket contains 6 apples. Two apples of them are bad. If we draw an apple. What is the probability of drawing a bad apple ?

....

....



Think And Answer

ⓐ Complete :

If the probability of the success of a pupil is $\frac{2}{3}$, then the probability of his failure is ....

ⓑ Which of the following may be a probability of an event ?

($\frac{1}{2}$ *or* $1\frac{1}{2}$ *or* $1\frac{1}{3}$ *or* $1\frac{1}{4}$)

ⓒ A box contains 2 red balls , 3 yellow balls and 4 white balls. If we draw one ball , what is the probability that the drawn ball is not white ?

....



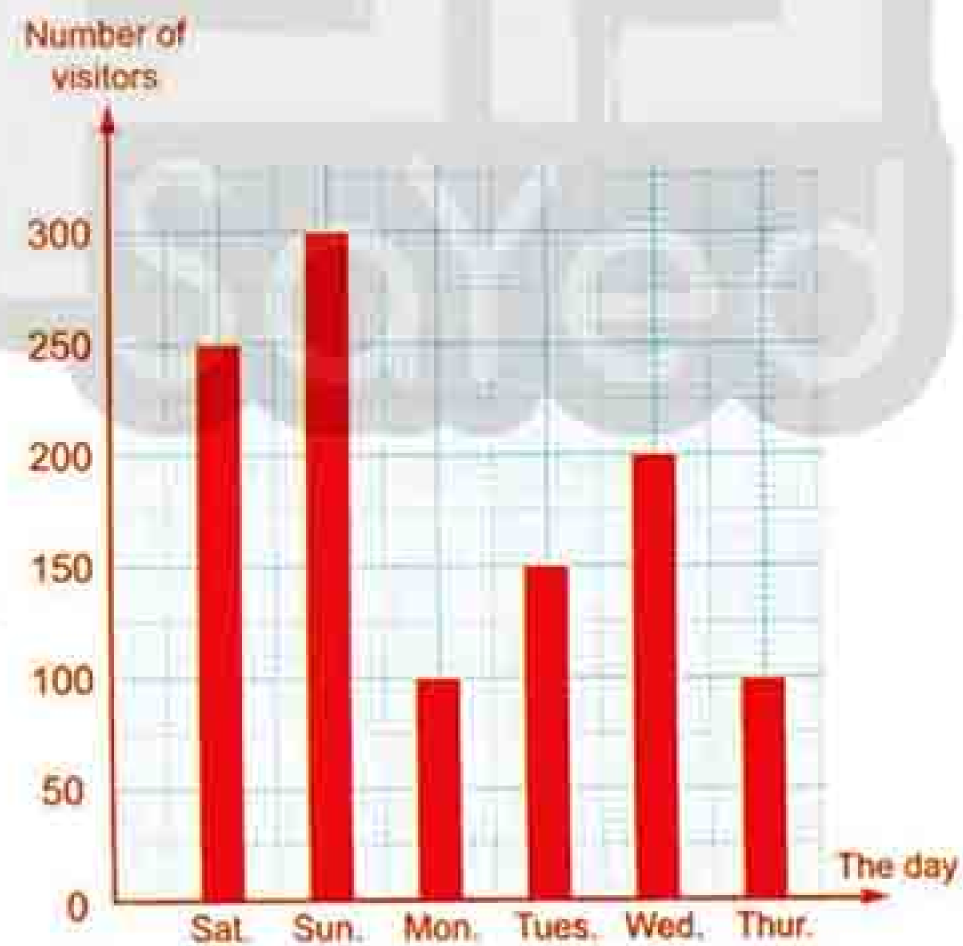
General exercise on unit five from the school book

1 The recorded temperatures in one of the weeks from Saturday to the following Friday were as follows :
33° , 31° , 30° , 38° , 34° , 29° and 27°
Record these data in a table and answer the following questions :

1. The lowest temperature was on ....
2. The difference between the highest and lowest temperatures
   = ... – .... = ...°
3. The hottest day was ....
4. The temperatures was less than 30° on .... , ...

2 The following graph shows the number of visitors to the zoo during 6 days :

From the graph , answer the following :



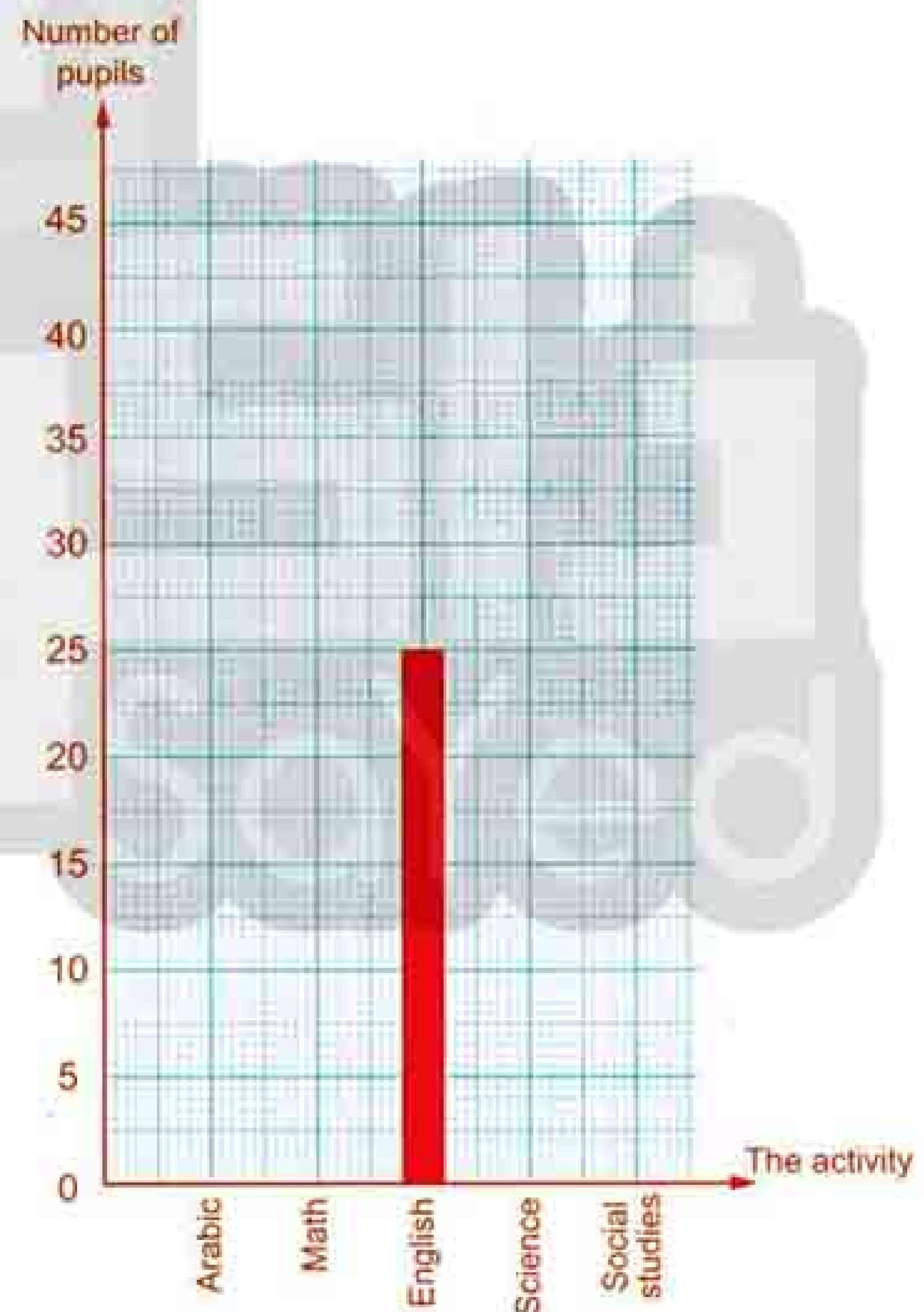
First : Complete the following table :

The day	Sat.	Sun.	Mon.	Tues.	Wed.	Thur.
Number of visitors	....	....	....	....	....	....

Second : Complete :

1. The least number of the visitors is on ....
2. The greatest number of the visitors is on ....
3. The difference between the greatest number and the least number of visitors = ...
4. The number of visitors who visited the zoo in Monday and Thursday = ...

3 ***If the number of the pupils who participated in school activity teams of the different subjects of 5th grade primary in your school due to the general evaluation of the fundamental subjects as follows :***

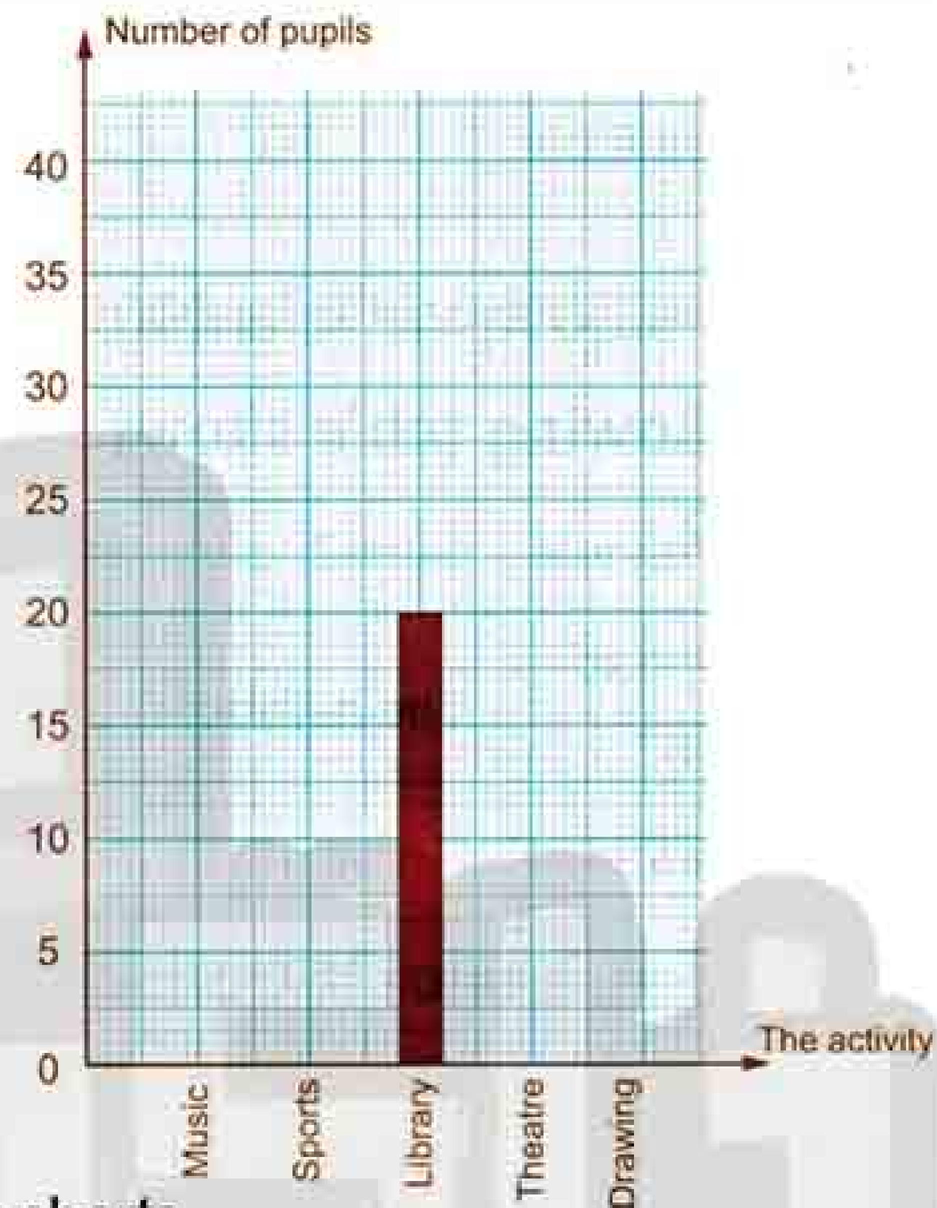


Activity	Arabic	Math	English	Science	Social studies
Number	30	45	....	20	15

Complete the table , then represent the previous data by bar charts.

4 *If the number of the pupils who took part in the school different activities of the 3rd grade primary in your school (General evaluation), subjects out the total marks as follows :*

The activity	The number
Music	15
Sports	30
Library	....
Theatre	15
Drawing	10



First : Represent these data by bar charts.

Second : Complete the following :

1. The least number of the pupils took part in the activity of ....
2. The most number of pupils took part in the activity of ....
3. The number of pupils who took part in drawing and library together is ....
4. The number of pupils who took part in music and sports activities is ....
5. The difference between the pupils who took part in library and theatre activities ....
6. Arrange the activities which the pupils practice them ascendingly.
   ....
7. Arrange the activities which the pupils practice them descendingly.
   ....

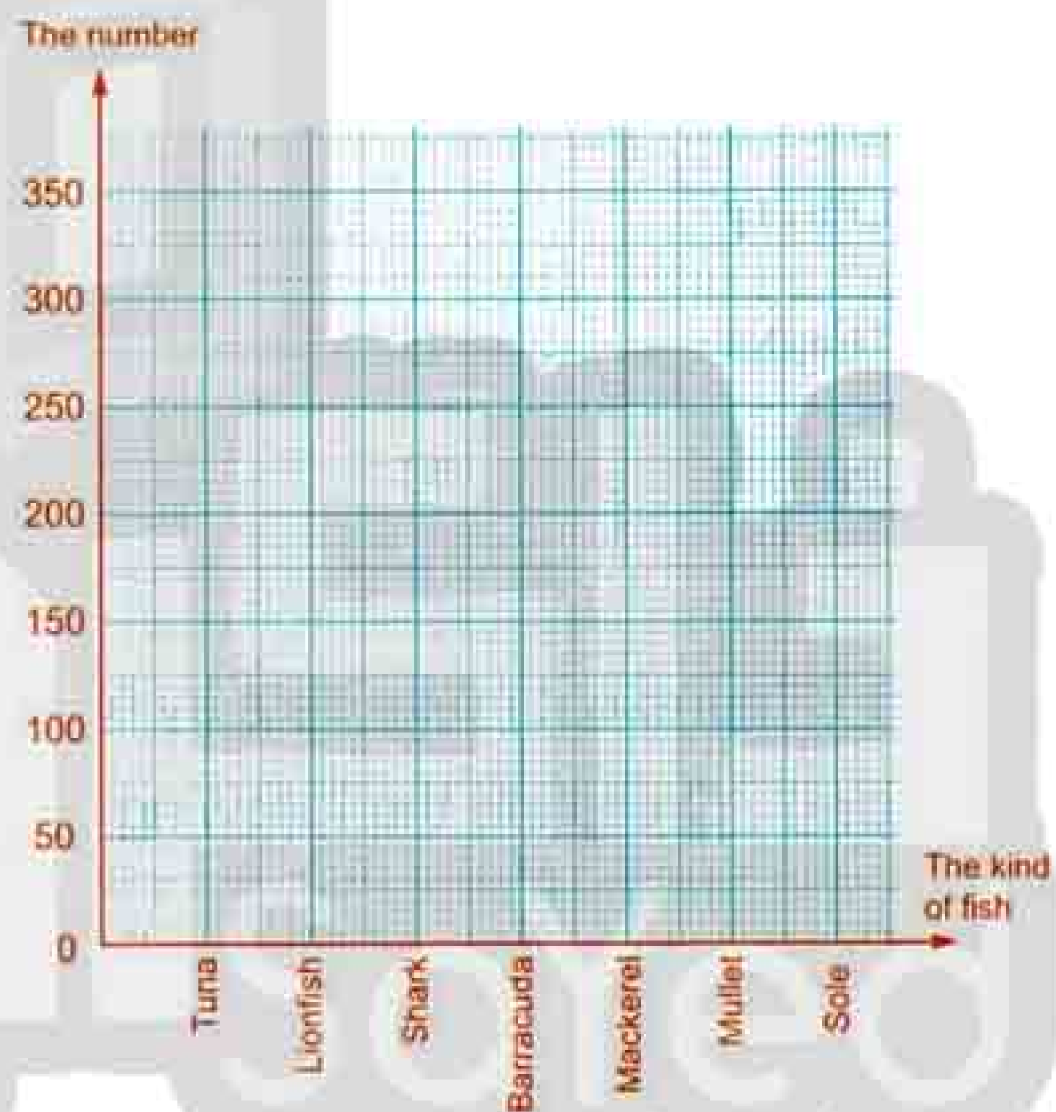
5 **The following table shows the kinds of the electric sets in a shop of electric sets :**

The sets	Fridge	Oven	Heater	Fan	Mixture
The number	60	80	70	100	20

Represent these data by bar charts.

6 **The following table shows some of kinds of fish which live in red sea :**

The kind of fish	The number
Tuna	300
Lionfish	100
Shark	20
Barracuda	150
Mackerel	200
Mullet	250
Sole	150



First : Represent these data by bar charts.

Second : Complete using the previous table.

1. The most number of fish is ....
2. The least number of fish is ....
3. There are two kinds of fish having the same number , they are .... and ....
4. The sum of the greatest and the least number of fish = ... + ... = ...
5. The difference between the greatest and the least number of fish = ... – .... = ...

7 **The following table shows the production of some crops which some desert governorates are well known by them :**

Crops	Balm	Olives	Almonds	Maize	Fruit	Vegetables
The number	70	50	60	50	10	15

Represent these data by bar charts.

8 **The following table shows the donations of six people to one of the hospitals :**

Name of person	Nabila	Aly	Michelle	Sameh	Mervat	Youssef
The amount donated in pounds	50	70	65	55	75	80

Represent these data by bar-lines graph.

9 **The following table shows the production of some fundamental crops in the Arab Republic of Egypt :**

Crops	Sugar cane	Rice	Wheat	Beans	Cotton	Lentils
The number	70	80	65	70	90	40

Represent these data by bar chart.

10 **Complete by writing the word (sure , possible or impossible) :**

1. It is .... that the sky rains rose.
2. It is .... that the sun rises from east.
3. It is .... that a man is of length 5 metres.
4. It is .... that the student gets the full mark.
5. It is .... that the elephant flies.
6. It is .... that the crocodile lives dry land.
7. It is .... that the hen bear.



8. It is .... that the sky is cloudy.
9. It is .... that the fish live in water.

11 **Choose one of the answers in brackets to express the probability of the occurrence of the following incidents :**

1. The sun rises in the west ....
   (certain *or* possible *or* impossible)
2. A pupil goes to school ....
   (certain *or* possible *or* impossible)
3. I watch television 4 times a week ....
   (certain *or* possible *or* impossible)
4. I go on a school tripe ....
   (certain *or* possible *or* impossible)

12 **When a die is tossed once, and the upper face is observed, find the following probabilities :**

1. Appearance of an odd number = ...
2. Appearance of an even number = ...
3. Appearance a number less than 4 = ...
4. Appearance a number greater than 4 = ...
5. Appearance the number 7 = ...
6. Appearance the number 1 , 2 , 3 , 4 , 5 or 6 = ...

13 **A box contains 12 balls, 5 balls are white, 4 balls are red, 3 balls are black. Find the probability of each of the following events :**

1. The drawn ball is red = ...
2. The drawn ball is white = ...
3. The drawn ball is white or black = ...
4. The drawn ball is white or red or black = ...
5. The drawn ball is not red = ...

⑥ The drawn ball is not white = ...

⑦ The drawn ball is black = ...

14 **As throwing a metallic coin once and observing the upper face. Complete :**

① The probability of appearing a head = $\frac{\dots\dots}{\dots\dots}$

② The probability of appearing a tail = $\frac{\dots\dots}{\dots\dots}$

③ The probability of appearing a head or a tail = $\frac{\dots\dots}{\dots\dots}$

15 **What is the probability of seeing an odd number of dots on the upper face of a piece of dice when you throw it ?**

16 **Choose the correct answer from those between brackets :**

① As tossing a metallic coin once and observing the upper face , then the probability of appearing a head = ... ($\frac{1}{2}$ or 1 or zero)

② The sun rises from east is a .... event.

(certain or possible or impossible)

③ The probability of getting an even number when tossing a die once = ... ($\frac{1}{4}$ or $\frac{1}{2}$ or $\frac{1}{6}$)

④ The probability of the certain event = ... ($\frac{1}{2}$ or 1 or zero)

⑤ The probability of the impossible event = ...

($\frac{1}{2}$ or 1 or zero)

⑥ The probability of the number 8 when tossing a die once = ...

($\frac{1}{8}$ or 1 or zero)

⑦ The probability of getting a number less then 3 when a die is tossed once = ... ($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{6}$)

⑧ The probability of getting a number less then 1 when a die is tossed once = ... (zero or $\frac{1}{2}$ or $\frac{1}{6}$)

Unit 5

Activities from the School book

1 Choose the correct answer from the following answers in brackets about collecting data. Give at least one extra example to support your point of view :

(a) Finding the height of a number of plants ....
(counting and recording , measuring , asking others)

(b) The number of cars entering a certain garage ....
(counting and recording , measuring , asking others)

(c) Pupils' preferences in joining different activity clubs ....
(counting and recording , measuring , asking others)

2 The following table shows the approximate number of planes that landed or departed from Egypt in five consecutive years (in thousands) :

Year	First	Second	Third	Fourth	Fifth
Number of planes in thousands	26	30	35	35	40

(a) Represent these data in columns.

(b) Mention the names of six airports in Egypt and the names of the governorates in which they are found.

(c) Mention some of the places you advise Egyptians and tourists to visit in each of these governorates.

3 Mohamed wrote the names of 7 of his friends on cards as follows :

Said	Ahmed	Khaled	Mina	Salem	Ayman	Amgad

If we turn these cards , change their position and draw one (without seeing it) , the probability that the name written on the drawn card will :

ⓐ begins with "S" ? is ....

ⓑ begins with "A" ? is ....

ⓒ begins with " W " ? is ....

ⓓ have 4 letters ? is ....

ⓔ have 5 letters ? is ....

Complete :

(1) It is certain that the number of letters of the name written on the drawn card is ....

(2) It is impossible that the name written on the drawn card will begin with the letter " .... "



Glossary

A

absent	غائب
according to	بالنسبة إلى
activity	نشاط
add	يجمع
adding	الجمع
advise	ينصح
after	بعد
against	ضد
agency	وكالة
ago	منذ
album	ألبوم
align	يصُف
also	أيضًا
among	ضمن
approximate	يقترب من
April	أبريل
area	مساحة
arrange	يرتب
arrow	سهم
ascend	يرتفع / يصعد
ascending	تصاعدى
August	أغسطس
authority	هيئة
axis	محور

B

bar	شريط
base	قاعدة
beans	فول
become	يصبح
before	قبل
begin	يبدأ
below	أسفل
benefit	فائدة
better	أفضل من
between	بين
blank	فراغ
blender	خلاط
blindly	على نحو أعمى
boiling	غليان
bowl	حوض سمك
briefly	بوضوح
broken	مكسور
building	مبنى

C

calculate	يحسب
calculator	آلة حاسبة
calendar	تقويم
capacity	سعة
card	بطاقة
carriage	عربة قطار
carry	يحمل
celebrate	يحتفل بـ
centimetre "cm."	سنتيمتر
certain	مؤكد
change	يتغير
check	يتأكد
chosen	مختار
circle	دائرة/يضع دائرة حول
citizen	مواطن
classmate	رفيق الصف
cold	بارد
column	عمود
common	مشترك
compare	يقارن
comparing	مقارنة
congruent	متطابق
consecutive	متتالى

GLOSSARY

consider	يعتبر
consistently	باستمرار
contain	يحتوى على
continue	يستمر
correct	صحيح
count	يعد
cucumber	خيار

D

data	معلومات
date	تاريخ
day	يوم
December	ديسمبر
decrease	ينقص
deduce	يستنتج
define	يُعرّف
degree celsius (°C)	درجة حرارة
denominator	مقام الكسر
depend on	يعتمد على
descending	تنازلى
dice	حجر النرد
die	حجر النرد
difference	فرق
digit	رقم
distribute	يوزع
dividend	مقسوم
division	القسمة
divisor	المقسوم عليه
donation	التبرع
donator	المتبرع
draw	يسحب ورقة لعب
driver	سائق

E

effect	تأثير
eighth	الثامن / ثُمن
eleventh	الحادى عشر / جزء من أحد عشر
empty	فارغ
engineer	مهندس
equally	بالتساوى
estimate	يخمّن
estimation	تخمين
even number	عدد زوجى
event	حدث
except	ما عدا
expand	يمتد
expectation	توقع
explain	يفسر
external	خارجى
extra	إضافى

F

failure	فاشل / راسب
false	خطأ
farm	مزرعة
Febraury	فبراير
feel	يشعر
fifth	الخامس/خُمس
figure	شكل
finish	ينتهى
first	الأول
flip	يقلب
forecast	يتنبأ
form	يكوّن
fourth	الرابع / رُبع
fraction	كسر
freezing	تجمد
Friday	الجمعة
fridge	ثلاجة
friend	صديق

G

geometry	هندسة
give	يعطى
given	مُعطى
go back	يعود

governorate	محافظة
gram "gm."	جرام
graph	رسم بيانى
greater	أكبر
greatest	الأكبر
group	مجموعة

H

half	نصف
head	رأس / وجه العملة
health	صحة
heavier	أثقل
heavy	ثقيل
height	ارتفاع
higher	أعلى
horizontal	أفقى
hot	ساخن
hour	ساعة
hundred	مئة

I

ice	ثلج
impossible	مستحيل
increase	يزيد
instrument	أداة
inverse	عكسى
invite	يدعو

J

January	يناير
job	وظيفة
July	يوليو
June	يونيو

K

keep	يحافظ
kilogram "kg."	كيلوجرام
kilometre "km."	كيلومتر

L

landing	هبوط
lattice	شبكة تربيعية
leap year	سنة كبيسة
least	الأقل
left	شمال / الباقى
length	طول
less	أقل
lie	يقع
light	خفيف
line	خط
loaf	رغيف
lower	أقل

M

March	مارس
May	مايو
meaning	معنى
measure	يقيس
measuring	قياس
measurement	قياس
medicine	دواء
mention	اذكر
method	طريقة
metre "m."	متر
mile	ميل
million	مليون
ministry	وزارة
minute	دقيقة
missing	مفقود
moderate	متوسط
Monday	الاثنين
month	شهر
mountain	جبل
multiplication	الضرب
multiply	يضرب عددًا فى آخر
multiplying	الضرب

GLOSSARY

N

need يحتاج
ninth التاسع / تُسع
normal طبيعى
notice يلاحظ
November نوفمبر
number عدد
numerator بسط الكسر

O

observe يلاحظ
obtain يحصل على
October أكتوبر
odd number عدد فردى
operation عملية
opposite مقابل
order يرتب / ترتيب
orphanage دار أيتام

P

pair زوج
participate يشارك
pattern نمط
pea البازلاء
perform يقوم بـ / يُجرى
perimeter محيط
period دورة
perpendicular to عمودى على
person شخص
piastre "P.T." قرش
piece قطعة
polio شلل الأطفال
polygon مضلع
population السكان
possible ممكن
pound "L.E." جنيه
previous سابق
probability احتمال
problem مشكلة / مسألة
product حاصل الضرب / منتج
property خاصية
purse ثروة / جائزة مالية/ حافظة نقود

Q

quarter ربع
quotient ناتج القسمة

R

randomly عشوائيًا
rectangle مستطيل
relation علاقة
remainder باقى
remark ملاحظة
remember يتذكر
represent يعرض
republic جمهورية
required مطلوب
rest باقى
result نتيجة
review فحص / معاينة
right صحيح / يمين
row صف
ruler مسطرة

S

salary مرتب
same نفس الشيء
Saturday السبت
save يدخر
search يبحث
seat مقعد
second الثانى / ثانية
secret سر
September سبتمبر
sequence تسلسل
set مجموعة
seventh السابع / سُبع

shape	شكل
share	يشارك
shelf	رف
side	جانب / ضلع
sign	علامة
silver	فضة
simplify	يختصر
simplifying	اختصار
situation	موقف
sixth	السادس / سُدس
smaller	أصغر
smallest	الأصغر
speed	سرعة
spend	يصرف
spinner	لعبة الدوارة
square	مربع
stadium	استاد
stamp	طابع بريد
statistics	الاحصاء
step	خطوة
sticker	ملصق
subtract	يطرح
subtracting	الطرح
success	ناجح
suitable	مناسب
sum	مجموع
summit	قمة
Sunday	الأحد
support	يدعم

T

table	جدول
tail	ظهر العملة المعدنية
temperature	درجة الحرارة
ten	عشرة
tenth	العاشر / عُشر
term	طرف / حدّ
thermometer	ترمومتر (ميزان الحرارة)
think	يفكر
third	الثالث / ثُلث
thousand	ألف
Thursday	الخميس
time	وقت
tourist	سائح
trip	رحلة
true	صحيح
try	يحاول
Tuesday	الثلاثاء

U

undefined	غير معرّف
underline	يضع خطا أسفل
units	آحاد / وحدات

V

vaccinate	يتطعم
vertical	رأسي
visitor	زائر

W

way	طريق
weak	ضعيف
weather	طقس
Wednesday	الأربعاء
week	أسبوع
weight	وزن
whole	صحيح
width	عرض
without	بدون
wool	صوف
work	عمل

Y

year	سنة / عام









Sheet 1 On Lesson 1 – Unit 1

1 Complete each of the following :

(1) 10 × .... = 440

(2) .... × 10 = 10 × 3 × 4

(3) 10 × 10 = ...

(4) 2 tens + 3 tens = ... × 10



2 Put the suitable relation (<) ، (=) or (>) :

(1) 5 × 10 ☐ 6 × 9

(2) 3 × 10 ☐ 4 × 9

(3) 10 × 10 ☐ (9 × 10) + 9

(4) 30 tens ☐ 30 × 10



3 Join :

(1) (3 × 8) + 26	(a) (7 × 10) + (5 × 10)
(2) 4 × 10	(b) 20 tens
(3) (4 × 3) × 10	(c) 8 × 5
(4) 20 × 10	(d) 10 × 5



4 Find the result of each of the following :

(1) 10 × 15 = ...

(2) 55 × 10 = ...

(3) 6 × 70 = ...

(4) 5 × 7 × 10 = ...



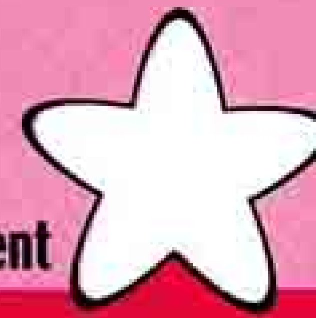
5 Ahmed bought 3 toys for 10 pounds each.

Find the price of 3 toys.

The price of 3 toys = ... × .... = ... pounds.







Total mark .... / 20

Sheet 2

Till Lesson 2 – Unit 1

1 Choose the correct answer :



(1) 9 × 100 = ... (90 or 900 or 9 100)

(2) 15 pounds = ... piastres. (15 or 150 or 1 500 or 510)

(3) 6 × 100 ☐ 2 × 3 × 10 (> or = or <)

(4) .... × 100 = 7 000 (7 or 700 or 70 or 7 000)

2 Complete each of the following :



(1) 2 × .... × 100 = 1 200

(2) 40 × 70 = ...

(3) 600 × 10 = ... × 100

(4) 35 metres = ... cm.

3 Find the result of each of the following :



(1) 500 × 3 = ... (2) 2 × 6 × 100 = ...

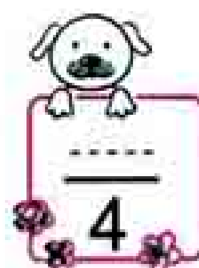
(3) 70 × 20 = ... (4) 2 × 5 × 17 = ...

4 Complete the following table :



	3	40	....	....
× 10	....	....	330	....
× 100	....	....	....	56 000

5 Wael bought 6 kilograms of apple for P.T. 800 each and 5 kilograms of orange for P.T. 200 each. How much did he pay ?



The price of apple = ...

The price of orange = ...

He paid = ...

Good Very Good Excellent

Total mark ------- 20

Sheet 3 Till Lesson 3 – Unit 1

1 Complete each of the following :



(1) 1 000 × 7 = ...

(2) 2 × .... × 1 000 = 10 000

(3) 1 000 × .... = 6 000

(4) (3 × 7) × 10 = ...

2 Choose the correct answer :



(1) 7 × .... × 1 000 = 42 000 (5 or 6 or 8 or 7)

(2) 300 × 40 = ... (1 200 or 12 or 12 000 or 1 000)

(3) 2 × 9 000 = ... (1 800 or 18 000 or 180 or 1 008)

(4) 69 metres = ... centimetres. (69 or 690 or 6 900 or 69 000)

3 Arrange the results in an ascending order :



(12 × 1 000) ، (5 × 1 000) ، (10 × 9 000) and (30 × 900)

The order is : ....

4 Put (<) , (=) or (>) :



(1) 1 000 × 7 ☐ 80 × 100

(2) 5 × 1 000 ☐ 50 × 1 000

(3) 65 000 ☐ (8 × 8) × 1 000

(4) 50 × 300 ☐ 15 × 1 000

5 A merchant bought 3 TV sets for L.E. 2 000 each.

How much money did the merchant pay ?



The merchant paid = ... × .... = L.E. ....

Good Very Good Excellent

Total mark 20

Sheet 4

Till Lesson 4 – Unit 1

1 Find the product of each of the following :

(1) 2 1 3 × 5 = ...

(2) 3 0 7 × 8 = ...



(3) 547 × 9 = ...

(4) 128 × 6 = ...

2 Complete each of the following :

(1) 8 × 1 518 = ...

(2) 4 × 7 × 10 = ...

(3) 20 × 800 = ...

(4) 256 × 3 = ...



3 Put (<) , (=) or (>) :

(1) 3 × 1 000 ☐ 20 × 10

(2) 186 × 6 ☐ 200 × 4

(3) 37 × 8 ☐ 60 × 40

(4) 8 × 521 ☐ 3 × 1 000



4 [a] Complete in the same pattern :

4 , 16 , 64 , ... , ...

[b] Choose the correct answer :

(1) 0 × 7 000 = ... (70 000 or 1 or 0)

(2) 9 × 302 = 2 710 + ... (6 or 7 or 8)

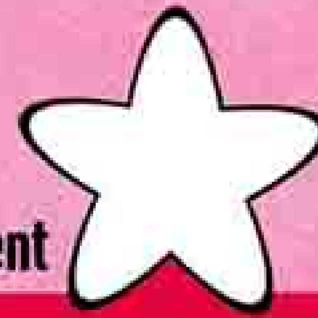


5 Nada bought a dress for 66 pounds and 3 books for 17 pounds each. How much do they all cost ?

The price of the books = ... = ... pounds.

The total of what Nada paid = ... = ... pounds.



Good  Very Good  Excellent 

Total mark ---- / 20

Sheet 5

Till Lesson 5 – Unit 1

1 Complete each of the following :

(1) The numbers 16 ، 24 and 36 are called .... numbers.

(2) The sum of two odd numbers is an .... number.

(3) 7 × 234 = ...

(4) 1 000 × 3 × 6 = ...



2 Choose the correct answer :

(1) The even number just after 12 is ....

(14 *or* 8 *or* 10 *or* 13)

(2) 112 m. = ... cm.

(1 120 *or* 11 200 *or* 11 002 *or* 1 102)

(3) The odd number between 7 and 11 is ....

(8 *or* 9 *or* 10 *or* 13)

(4) .... is an odd number. (96 *or* 48 *or* 70 *or* 41)



3 From the following numbers :

5 775 ، 4 884 ، 123 ، 5 770 ، 1 221 ، 8 ، 29 ، 700

Find : (1) The even numbers : ....

(2) The odd numbers : ....



4 Find the result of each of the following and write (even or odd) in front of each answer :

(1) 4 × 17 = ... (   )

(2) 3 × 103 = ... (   )

(3) 3 × 1 000 = ... (   )

(4) 0 × 7 000 = ... (   )



5 Mariam bought 10 dolls for L.E. 12 each.
Find the price of dollls.

The price of dolls = ... × .... = L.E. ....



Good Very Good Excellent

Total mark ------- 20

Sheet 6

Till Lesson 6 – Unit 1

1 Find the result of each of the following :



(1) 568 ÷ 8 = ……… (2) 1 266 ÷ 6 = ………

(3) 2 ⟌ 8 422 (quotient: ………) (4) 3 514 ÷ 7 = ………

2 Choose the correct answer :



(1) 455 ÷ 5 ……… 23 × 7 (> or = or <)

(2) 100 m. = ……… cm. (10 000 or 10 or 1 or 100)

(3) 4 × 7 × 10 = 10 × ……… (7 or 4 or 28)

(4) (8 × 8) ÷ 8 = ……… (1 or 8 or 64)

3 Complete each of the following :



(1) 36 ÷ ……… = 9 (2) ……… ÷ 5 = 21

(3) 7 × 6 × 10 = ……… (4) 6 × 750 = ………

4 Put (✓) for the correct statement and (×) for the incorrect one :



(1) 515 ÷ 5 = 13 ( )

(2) 127 × 5 = 635 ( )

(3) The smallest even number is 2 ( )

(4) 30 × 50 = 1 500 ( )

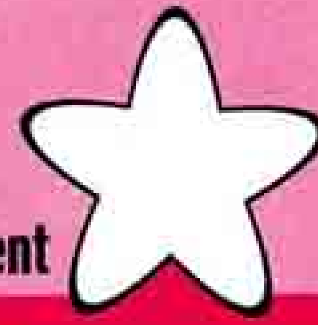
5 A father distributed 690 pounds among his 3 sons equally.

What is the share of each son ?



The share of each son = ……………… ÷ ……………… = ………… pounds.



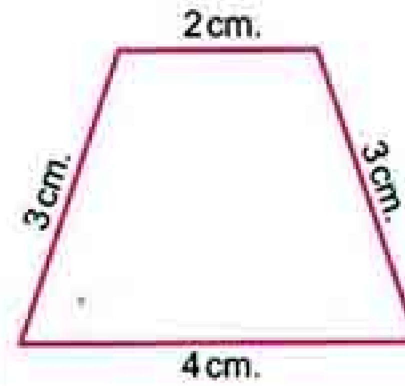



Sheet 7 Till Lesson 1 – Unit 2

1 Complete each of the following :

(1) The perimeter of any polygon is .... of its side lengths.

(2) The perimeter of the opposite figure = ... cm.





(3) The perimeter of a triangle of side lengths 6 cm. , 8 cm. and 10 cm. is .... cm.

(4) The perimeter of square whose side length 6 cm. = ... cm.

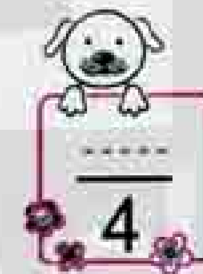
2 Choose the correct answer :

(1) The perimeter of rectangle whose length 8 cm. , and its width 5 cm. = ... cm.

(13 or 20 or 26 or 24)

(2) The perimeter of square = side length × ....

(0 or 2 or 3 or 4)



(3) The perimeter of a triangle is 12 cm. , if the sum of two of its sides is 9 cm. , then the length of the third side is .... cm.

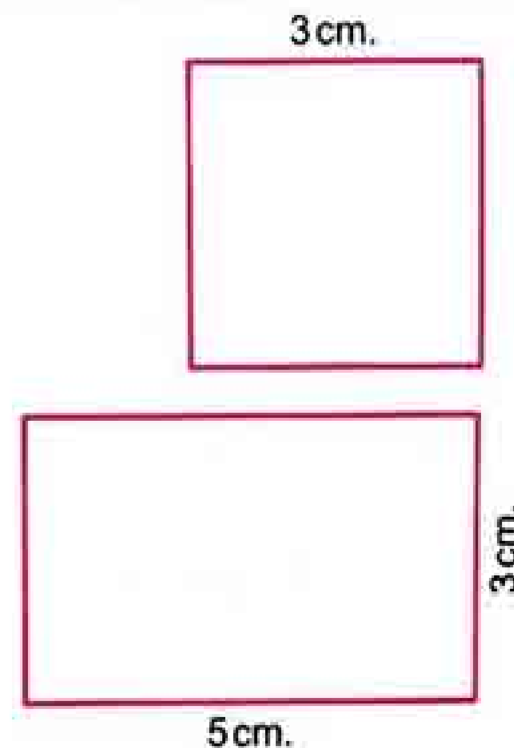
(21 or 6 or 4 or 3)

(4) 903 ÷ 3 = ... (31 or 13 or 301 or 300)

3 Complete :

(1) The perimeter of the opposite square = ... cm.

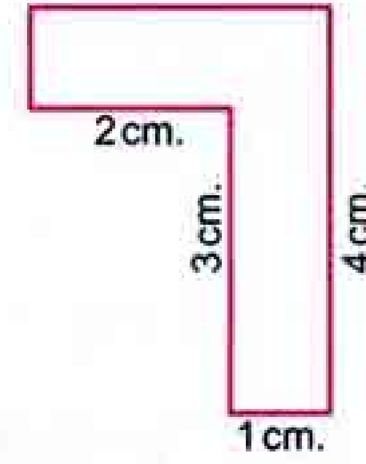
(2) The perimeter of the opposite rectangle equals .... cm.





(3) The perimeter of

the opposite figure = ... cm.



(4) The perimeter of rectangle whose length 2 m.

and its width 150 cm. = ... cm.

4 ***A triangular shaped piece of land its perimeter is 120 m.***

If its side lengths are equal. Find the side length of it.

The side length = ... = ... m.



5 ***Which is the greatest ?***

The perimeter of a square of side length 25 cm. ، the perimeter

of a rectangle of length 30 cm. and width 15 cm.

or the perimeter of a triangle of side lengths 23 cm. ،

39 cm. and 33 cm. ?



The perimeter of the square = ... = ... cm.

The perimeter of the rectangle = ... = ... cm.

The perimeter of the triangle = ... = ... cm.

The greatest is ....







Good Very Good Excellent

Total mark ---- 20

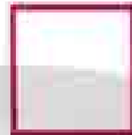
Sheet 8

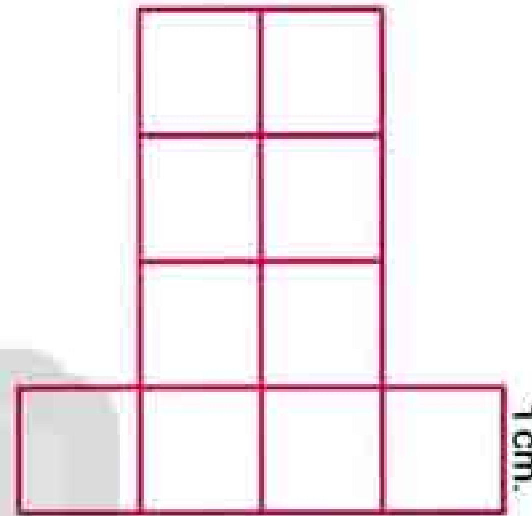
Till Lesson 2 – Unit 2

1 Complete each of the following :

(1) In the opposite figure :

(a) The perimeter = ... cm.

(b) The area = ... 





(2) 4 × 3 × 1 000 = ...

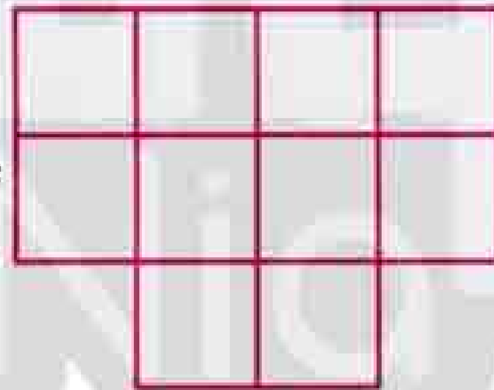
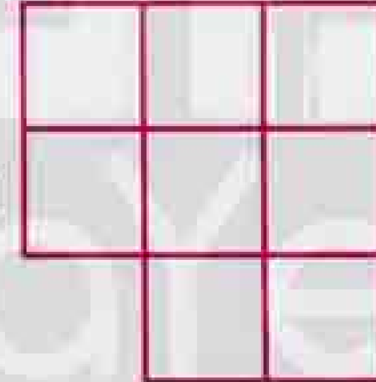
(3) .... ÷ 3 = 203

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2 Choose the correct answer :

(1) 5 050 ÷ 5 = ...

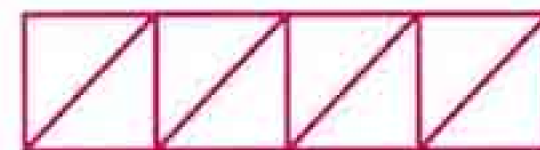
(1 001 or 1 100 or 1 010 or 101)

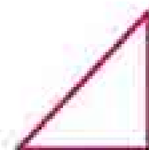
(2) The area of  .... the area of 



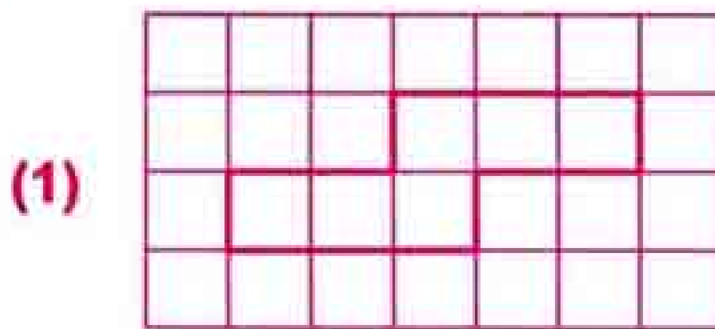
(< or = or >)

(3) 232 × .... = 23 200 (100 or 10 or 1 000 or 101)

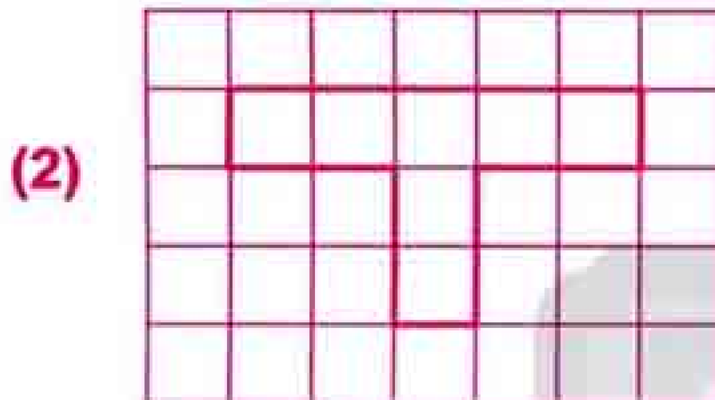
(4) The area of the opposite figure 

equals ....  (7 or 8 or 9 or 10)

3 **Match each figure with its equal area :**

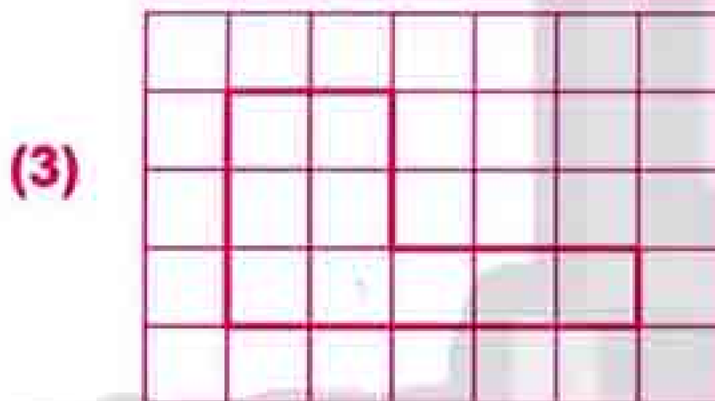
(1) 

(a) 12 ☐

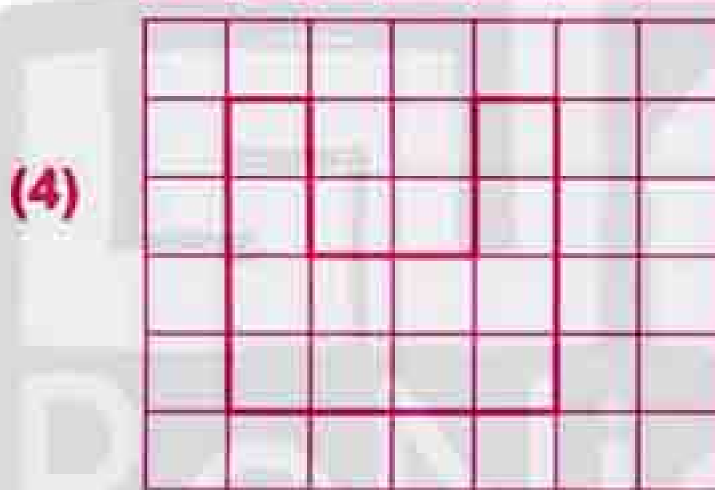
(2) 

(b) 9 ☐



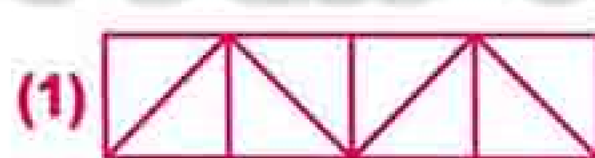
(3) 

(c) 7 ☐

(4) 

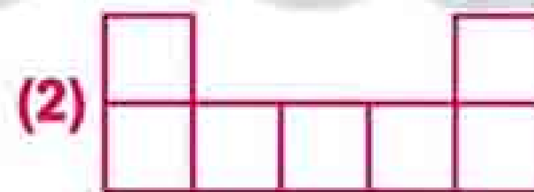
(d) 6 ☐

4 **Find the perimeter and the area of each of the following figures :**

(1) 

The perimeter = ... units.

The area = ... ◺

(2) 

The perimeter = ... units.

The area = ... ☐



5 **A primary school has 9 classes with equal number of pupils in each. If the whole number of pupils is 450 pupils.**

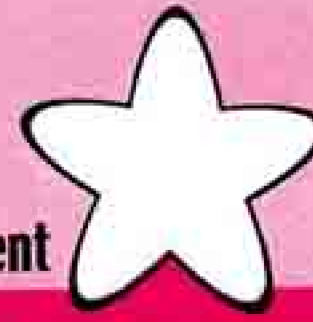
How many pupils are there in each class ?

The number of pupils in each class = ... = ... pupils.









Total mark .... / 20

Sheet 9

Till Lesson 1 – Unit 3

1 Complete each of the following :

(1) The fraction $\frac{9}{13}$ its numerator is .... and its denominator is ....

(2) $1 = \frac{........}{7}$

(3) The numbers 119 , 113 , 91 and 221 are called .... numbers.

(4) The perimeter of square of side length = 5 cm. is .... cm.



2 Choose the correct answer :

(1) Seven eighths = ... (78 or $\frac{6}{7}$ or 87 or $\frac{7}{8}$)

(2) 31 × 1 000 = ... (301 or 310 or 31 000 or 3 100)

(3) The fraction that represents the shaded part of [triangle figure] is ....

($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{5}$ or $\frac{1}{4}$)

(4) 4 × 235 = ... (904 or 940 or 490 or 9 400)



3 [a] How many :

(1) sevenths are there in one whole ? ....

(2) twelveths are there in one whole ? ....

[b] Write the following fractions in words :

(1) $\frac{7}{9}$ = ...

(2) $\frac{3}{8}$ = ...



4 Complete :

(1) 609 ÷ 3 = ...

(2) 100 × 4 × .... = 2 400

(3) 20 × 70 = ...

(4) The perimeter of a triangle of side lengths are 5 cm. , 6 cm. and 4 cm. = ... cm.



5 Write the fractions representing the shaded and not shaded circles :



The balls that are shaded	$\frac{.....}{.....}$	$\frac{.....}{.....}$
The balls that are not shaded	$\frac{.....}{.....}$	$\frac{.....}{.....}$





Good Very Good Excellent

Total mark ...... / 20

Sheet 10

Till Lesson 2 – Unit 3

1 Find the missing terms :



(1) $\frac{1}{3} = \frac{\cdots}{6} = \frac{5}{\cdots}$

(2) $\frac{2}{5} = \frac{\cdots}{15} = \frac{8}{\cdots}$

(3) $\frac{12}{14} = \frac{\cdots}{7}$

(4) $\frac{15}{20} = \frac{3}{\cdots}$

..... / 4

2 Match the equal fractions :



(1) $\frac{18}{27}$ (a) $\frac{2}{9}$

(2) $\frac{1}{5}$ (b) $\frac{18}{42}$

(3) $\frac{3}{7}$ (c) $\frac{2}{3}$

(4) $\frac{10}{45}$ (d) $\frac{4}{20}$

..... / 4

3 Choose the correct answer :



(1) $\frac{5}{6}$ = ... ($\frac{20}{30}$ or $\frac{15}{24}$ or $\frac{15}{30}$ or $\frac{30}{36}$)

(2) 1 322 × 4 = ... (5 288 or 5 882 or 5 829 or 2 858)

(3) $\frac{6}{18}$ = ... ($\frac{1}{3}$ or $\frac{2}{3}$ or $\frac{3}{6}$ or $\frac{1}{18}$)

(4) 9 tens ÷ 9 = ... (10 or 9 or 1 or 90)

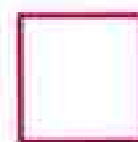
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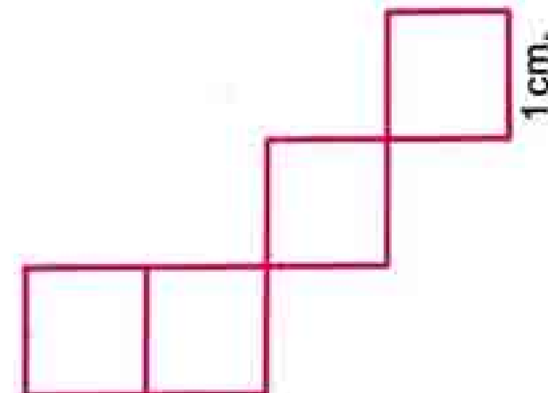
4 Complete each of the following :



(1) $\frac{3}{4} = \frac{9}{\cdots}$

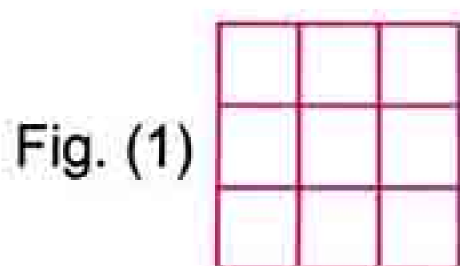
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(2) The perimeter of the opposite figure is .... cm. , and its area is .... 

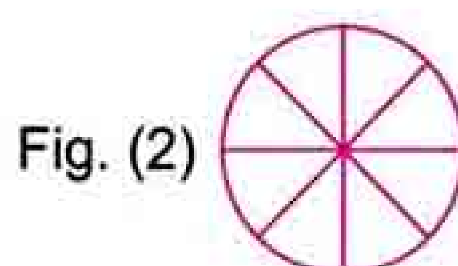


(3) A quarter = ...

5 [a] *Shade according to the fraction :*

Fig. (1) 

$\frac{2}{3} = \frac{.....}{9}$

Fig. (2) 

$\frac{1}{4} = \frac{.....}{8}$



[b] **Simplify :**

(1) $\frac{28}{49} = \frac{.....}{.....}$

(2) $\frac{30}{35} = \frac{.....}{.....}$





Good Very Good Excellent

Total mark ---- / 20

Sheet 11 Till Lesson 3 – Unit 3

1 Put the suitable relation (<) , (=) or (>) :



(1) $\frac{7}{9}$ ☐ $\frac{5}{9}$ (2) $\frac{5}{11}$ ☐ $\frac{6}{11}$

(3) $\frac{11}{12}$ ☐ 1 (4) $\frac{1}{5}$ ☐ $\frac{1}{4}$

---- / 4

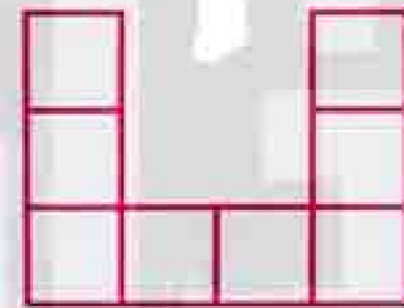
2 Complete each of the following :

---- / 4

(1) 3 ⟌183 (quotient: ....)

(2) The number of the even numbers included between 10 and 20 is ....

(3) The perimeter of the opposite shape = ... units.



(4) Perimeter of rectangle = (......... + ...) × 2

3 Choose the correct answer :



(1) 45 ÷ 5 = ... (9 or 7 or 8 or 6)

(2) $\frac{1}{13}$ > .... ($\frac{1}{11}$ or $\frac{1}{12}$ or $\frac{1}{14}$ or $\frac{1}{10}$)

(3) $\frac{4}{20}$ = ... ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{5}$ or $\frac{1}{7}$)

(4) The smallest odd number is .... (0 or 1 or 2 or 3)

---- / 4

4 Arrange the following fractions in an ascending order :



$\frac{3}{10}$, 1 , $\frac{2}{10}$ and $\frac{9}{10}$

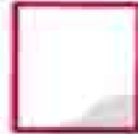
The order is : ....

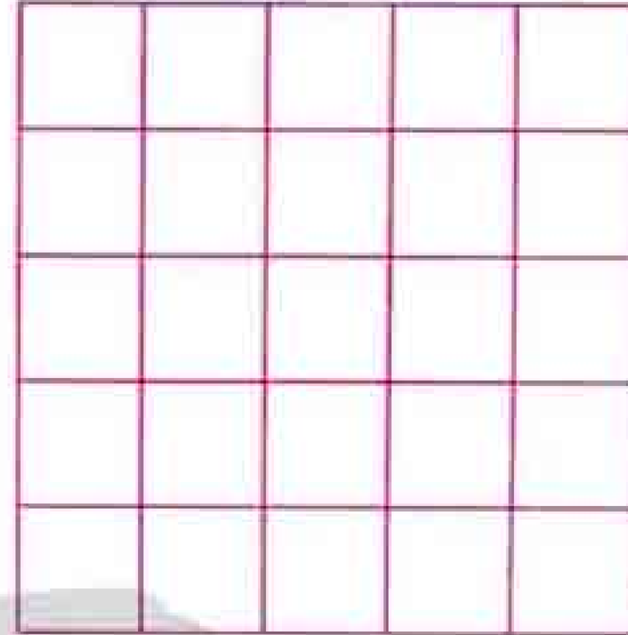
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5 On the opposite lattice :

Draw the square XYZL in which XY = 3 cm. and calculate its perimeter and its area.

(1) Its perimeter = ········ cm.

(2) Its area = ········ 





Good  Very Good  Excellent 

Total mark ...... / 20

Sheet 12

Till Lesson 4 – Unit 3

1 Find the result of each of the following :

(1) $\frac{9}{14} + \frac{4}{14} =$ ....

(2) $\frac{8}{11} - \frac{5}{11} =$ ....

(3) $\frac{10}{45} + \frac{18}{45} + \frac{17}{45} =$ ....

(4) $1 - \frac{9}{13} =$ ....



2 Complete each of the following :

(1) The even number just after 103 is ....

(2) 250 ÷ 5 = ...

(3) 3 pounds = ... piastres.

(4) .... $- \frac{1}{6} = \frac{1}{6}$



3 Choose the correct answer :

(1) Six elevenths = ... ($\frac{6}{10}$ or $\frac{6}{11}$ or $\frac{6}{12}$ or $\frac{6}{13}$)

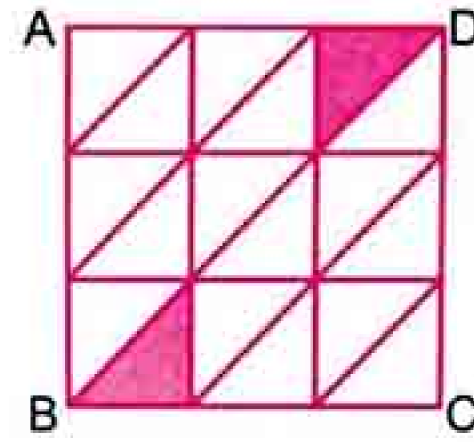
(2) $1 - \frac{4}{6} = \frac{1}{6} +$ .... ($\frac{1}{6}$ or $\frac{2}{6}$ or $\frac{6}{6}$ or $\frac{5}{6}$)

(3) $\frac{2}{5} =$ .... ($\frac{3}{10}$ or $\frac{1}{5} + \frac{2}{5}$ or $\frac{16}{20}$ or $1 - \frac{3}{5}$)

(4) $\left(\frac{2}{5} + \frac{1}{5}\right)$ .... four fifths (> or = or <)



4 ***In the opposite figure :***

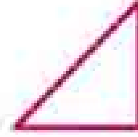


ABCD is a square in which AB = 3 cm.

Complete :



(1) The perimeter of the square = ... cm.

(2) The area of the square = ... 

(3) The two equal fractions for shaded parts of the whole figure are ....

and ....

5 [a] ***Arrange the following in a descending order :***

$\frac{1}{8}$, $\frac{7}{8}$, $\frac{5}{8}$ and $\frac{3}{8}$

The order is : .... , ... , ... and ....



[b] ***What is the number that if multiplied by 615 , then the result will be 615 000 ?***

The number = ...







Total mark .... / 20

Sheet 13 — Till Lesson 1 – Unit 4

1 Choose the correct answer :

(1) The temperature of the human body is C

(21° *or* 42° *or* 37° *or* 40°)

(2) $\frac{27}{36}$ = ... ($\frac{3}{6}$ *or* $\frac{3}{4}$ *or* $\frac{3}{9}$ *or* $\frac{4}{5}$)

(3) One sixth + four sixths = ... ($\frac{1}{6}$ *or* $\frac{5}{6}$ *or* $\frac{1}{2}$ *or* $\frac{5}{12}$)

(4) $(\frac{3}{7} + \frac{4}{7})$ .... $(\frac{4}{9} + \frac{3}{9} + \frac{2}{9})$ (< *or* = *or* >)

..... / 4

2 Complete each of the following :

(1) The odd number lying between 28 and 30 is ....

(2) .... is used for measuring temperature.

(3) .... × 8 = 80

(4) The perimeter of the square of side length 7 cm. is .... cm.

..... / 4

3 Put (✓) for the correct statement and (×) for the incorrect one :

(1) 963 ÷ 3 = 123 ( )

(2) If 17°C was the lowest temperature in a day , then the heighest temperature in that day was 12°C ( )

(3) The temperature at which water boils is 0°C ( )

(4) $\frac{2}{5} + \frac{3}{5} = 1$ ( )

..... / 4

4 Find the result of each of the following :

(1) 527 × 6 = ...

(2) 8 064 ÷ 8 = ...

(3) (100 × 5) + (100 × 2) = ...

(4) $1 - \frac{2}{9}$ = ...



5 The temperature recorded in one of weeks as follows :

Day	Temperature
Saturday	21°C
Sunday	19°C
Monday	23°C
Tuesday	22°C
Wednesday	18°C
Thursday	21°C
Friday	20°C



(1) The highest temperature was on ....

(2) The difference between the highest and lowest temperatures is ....°C

(3) The coldest day was on ....

(4) The temperatures was less than 20°C on .... and ....





Good Very Good Excellent

Total mark 20

Sheet 14 Till Lesson 2 – Unit 4

1 Complete each of the following :

(1) 9 375 metres = ... kilometres and .... metres.

(2) 7 × 3 × 100 = ...

(3) A triangle , its side lengths are 5 cm. , 8 cm. and 7 cm. , then its perimeter = ... cm.



2 Choose the correct answer :

(1) 840 ÷ 4 = ... (21 or 210 or 201 or 102)

(2) $\frac{2}{3}$ ☐ 1 (> or = or <)

(3) The suitable unit for measuring the distance between Cairo and Aswan is .... (metre or centimetre or kilometre)

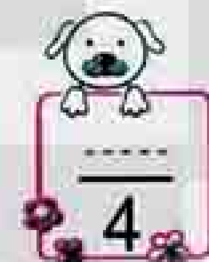
(4) $\frac{3}{5} + \frac{1}{5}$ = ... ($\frac{8}{25}$ or $\frac{16}{25}$ or $\frac{4}{25}$ or $\frac{8}{10}$)



3 Arrange the following lengths descendingly :

1 400 m. , 2 km. , 1 000 m. and half kilometre

The order is : ....



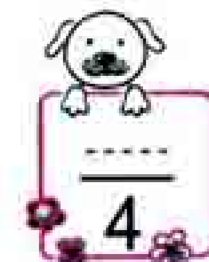
4 Match :

(1) 1 metre = ... centimetres. (a) 49

(2) 630 ÷ 6 = ... (b) 250

(3) $\frac{5}{7} = \frac{35}{.....}$ (c) 100

(4) $\frac{1}{4}$ km. = ... m. (d) 105



5 A pizza is divided to 8 equal parts. Ahmed took $\frac{3}{8}$ of the pizza , his brother Omar took $\frac{2}{8}$ and their sister Sarah took the rest. How many parts did Sarah take ?

Ahmed and Omar's shares = ... = ...

Sarah's share = ... = ...







Good Very Good Excellent

Total mark 20

Sheet 15 Till Lesson 3 – Unit 4

1 Put (<) , (=) or (>) in the blanks :



(1) The elephant's weight [ ] your weight.

(2) A kilogram and a half [ ] 1 500 gm.

(3) 7 500 gm. [ ] 7 kg.and a quarter.

(4) 4 kg. and 250 grams [ ] 5 kg.

----- / 4

2 Complete each of the following :



(1) The side length of a square its perimeter 20 cm. = ... cm.

(2) 3 kilograms and 70 grams = ... grams.

(3) $\frac{9}{13}$ – .... = $\frac{3}{13}$

(4) 30 × 40 = 100 × ....

----- / 4

3 Choose the correct answer :



(1) The weight of a rabbit can be ....
(2 gm. or 2 kg. or 20 kg. or 200 kg.)

(2) The area of [circle] is .... [quarter circle] (1 or 2 or 3 or 4)

(3) 8 030 gm. = 8 kg. + ... gm. (3 or 30 or 300 or 3 000)

(4) 217 ÷ 7 = ... (31 or 301 or 13 or 103)

----- / 4

4 Arrange each of the following in an ascending order :



5 100 gm. , $\frac{1}{2}$ kg. , 5 kg. and 5 010 gm.

The order is : ....

----- / 4

5 A triangular piece of land , the length of two of its sides are 50 m. and 40 m. Its perimeter is 120 m. Find the length of the third side.



The sum of the two sides = ... = ... m.

The length of the third side = ... = ... m.

----- / 4





Good Very Good Excellent

Total mark ------ 20

Sheet 16

Till Lesson 4 – Unit 4

1 Choose the correct answer :

(1) The suitable length of a notebook is ....

(25 cm. or 1 m. or 10 km. or 150 cm.)

(2) The number of days in the year = ... days.

(356 or 360 or 365 or 370)



----- 4

(3) One year and two months = ... months.

(13 or 14 or 15 or 12)

(4) The perimeter of the square of side length 9 cm. = ... cm.

(18 or 27 or 36 or 45)

2 Complete each of the following :

(1) 2 days + 2 hours = ... hours.



----- 4

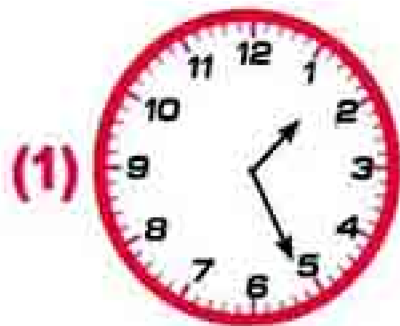
(2) 2 530 ÷ 5 = ...

(3) .... is a unit for measuring the temperature.

(4) 7 420 m. = ... km. + 420 m.

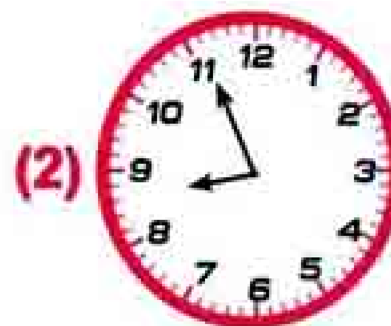
3 What is the time now ?

"Write your answer in words and in digits" :

(1) 

....

.... : ....

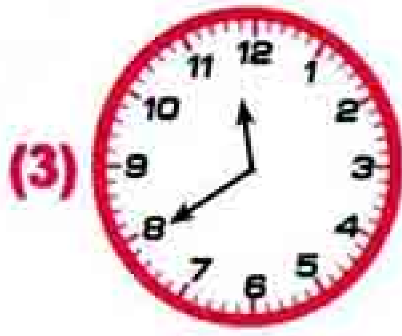
(2) 

....

.... : ....

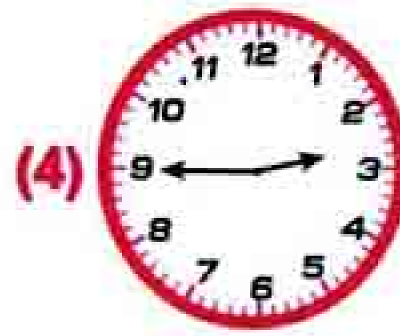


----- 4

(3) 

....

.... : ....

(4) 

....

.... : ....

4 Arrange the following ascendingly :

36 hours ، 2 weeks ، 2 days and 72 hours

The order is : ....



5 Draw the two hands of the watch according to the written time :

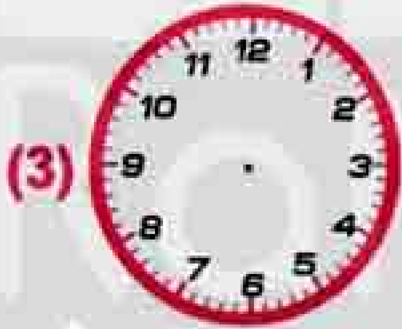
(1) 

3 : 55

(2) 

quarter past nine



(3) 

25 to 4

(4) 

6 : 45








Total mark 20

Sheet 17 Till Lesson 1 – Unit 5

1 Complete each of the following :



(1) We can represent data by .... and ....

(2) $1 - \frac{3}{4} =$ ....

(3) $700 \times 30 =$ .... thousands.

(4) The thermometer is used for measuring ....

2 Choose the correct answer :

(1) $50\ 015 \div 5 =$ ....

(103 **or** 1 003 **or** 10 003 **or** 30 001)

(2) 6 kilometres and 20 metres = ... m.

(620 **or** 6 002 **or** 6 020 **or** 6 200)



(3) The suitable weight of a hen is ....

(3 gm. **or** 3 kg. **or** 300 kg. **or** 30 gm.)

(4) The perimeter of rectangle whose length 6 cm. and its width 4 cm. = ... cm. (24 **or** 10 **or** 15 **or** 20)

3 Complete :

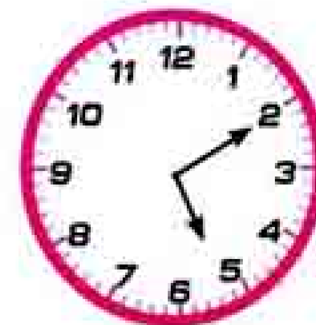


(1) The smallest odd number is ....

(2) $2 \times 3 \times 1\ 000 =$ ....

(3) In the opposite watch

it's ....

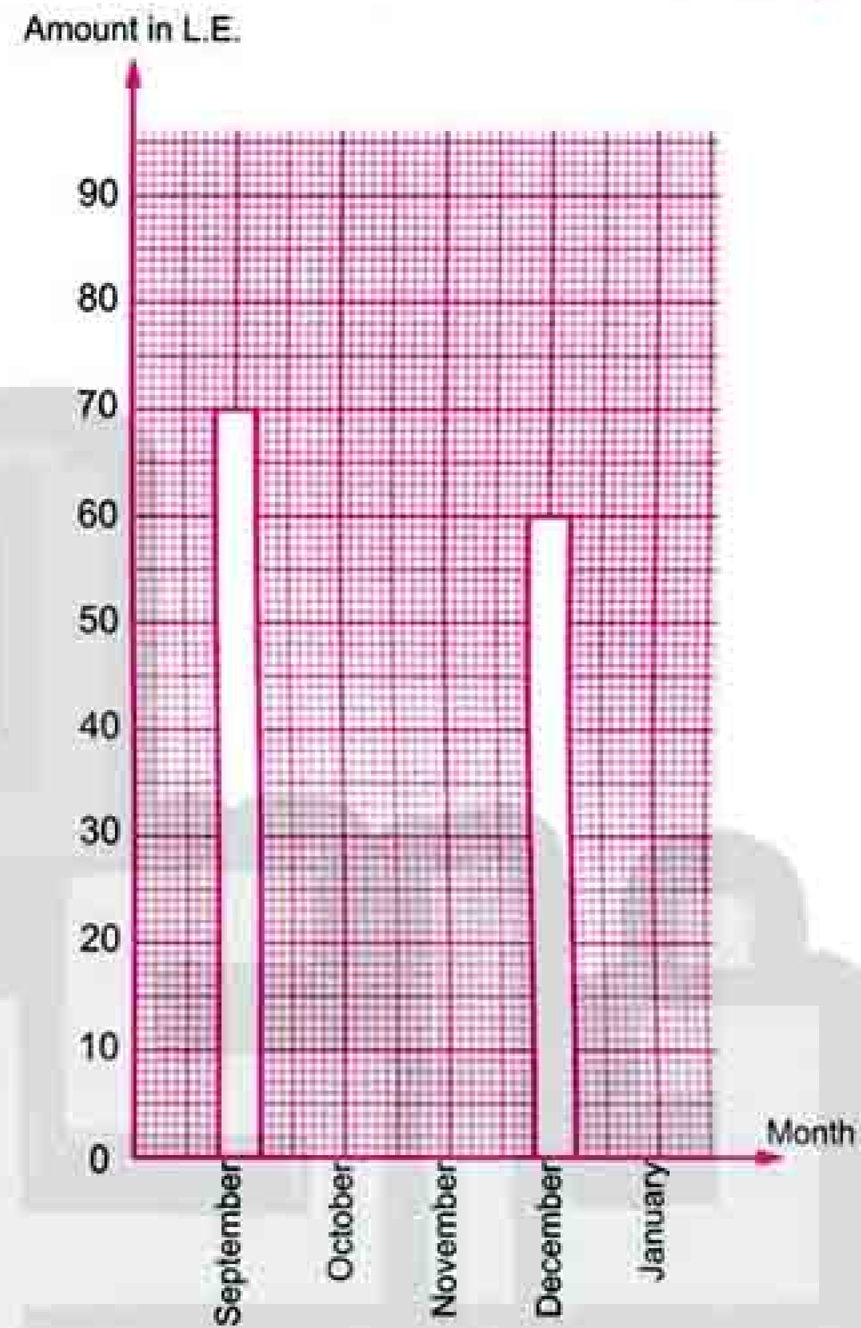


(4) The fraction if added to $\frac{1}{5}$ the result will be $\frac{2}{5}$ is ....

4 **The following table and the opposite bar-lines represent the amount of money in L.E. that Mona saved in five months. Complete the table and the bar-lines.**



Month	September	October	November	December	January
Amount in L.E.	......	80	50	......	30



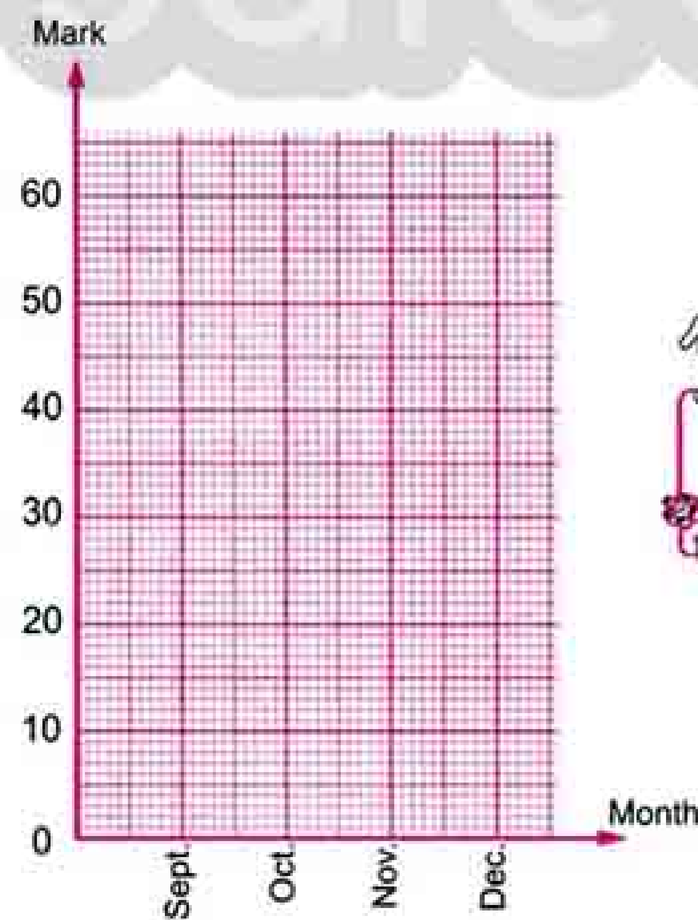
5 **The following table represents Omar's marks during 4 months in maths :**

Represent these data by a broken line , then answer the questions below :

Month	Sept.	Oct.	Nov.	Dec.
Mark	40	30	50	40

(1) In which month did Omar take the greatest mark ?

(2) Find the difference between the greatest mark and the smallest one.





Good Very Good Excellent

Total mark ...... / 20

Sheet 18 Till Lesson 2 – Unit 5

1 Complete each of the following :

(1) $\frac{5}{12} + \frac{\cdots}{12} = 1$

(2) The two even numbers between 11 and 15 are .... and ....

(3) The probability of the certain event = ...

(4) 8 kilograms and 650 grams = ... grams.



2 Choose the correct answer :

(1) 2 721 ÷ 3 .... 92 × 9 (< or = or >)

(2) The probability of the impossible event = ...

(1 or between 0 and 1 or 0)

(3) The normal human temperature is C

(73° or 37° or 30° or 27°)



(4) A box has 3 red balls and 4 yellow balls. One ball is chosen randomly , then the probability of the chosen ball is yellow = ... (1 or $\frac{3}{7}$ or $\frac{4}{7}$ or $\frac{1}{7}$)

3 Circle the answer that is either correct or close to the correct answer :

(1) The sun rises in the west ....

(certain or possible or impossible)

(2) Appearing a tail when tossing a coin once is .... event.

(certain or possible or impossible)



(3) The fish live in water ....

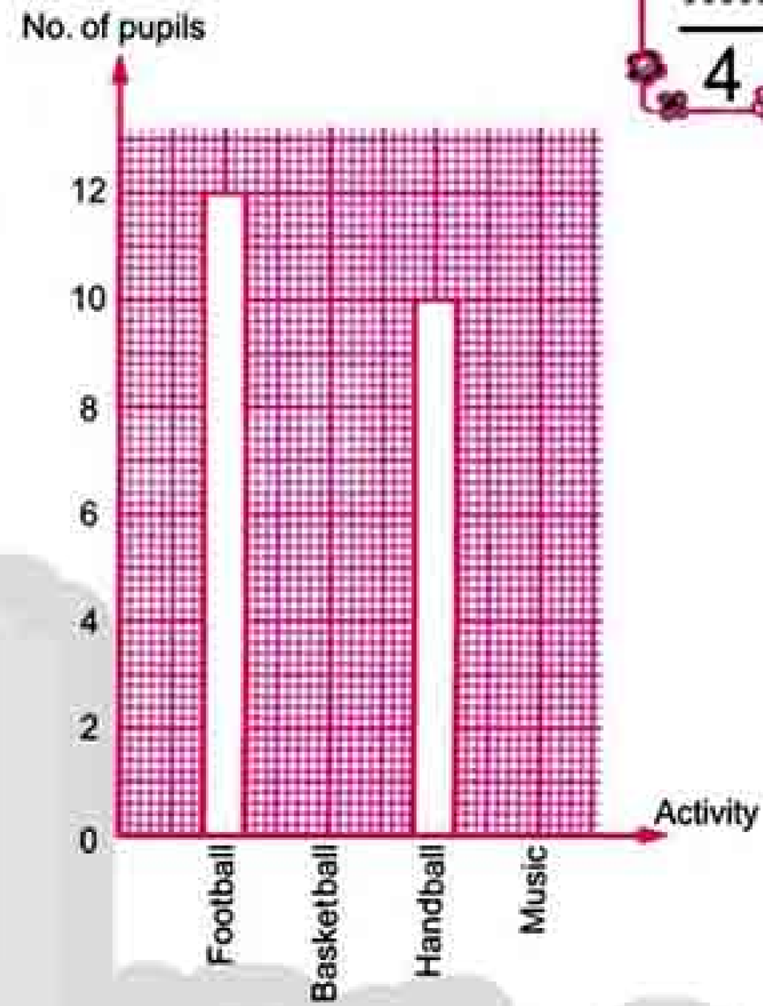
(certain or possible or impossible)

(4) I go on a school trip ....

(certain or possible or impossible)

4 The opposite bar-lines and the following table show the number of pupils who share in the school activities. Complete each of the table and the bar-lines , then answer the following question :

$\frac{\text{-----}}{4}$



Activity	Football	Basketball	Handball	Music
No. of pupils	......	8	......	6

(1) Which activity has the greatest number of pupils ? ....

(2) Complete :

The number of pupils who play basketball is greater than the number of pupils who play ....

5 A dice is thrown once , by observing the upper face.

Find the probability of getting :

$\frac{\text{-----}}{4}$

(1) the number 4

(2) a number greater than 6

(3) a number smaller than 5

(4) an even number.

Final Examinations
2019



★ 3 model examinations of the school book.

★ 25 schools' examinations from different governorates.



Model Examinations of the School Book

Model 1

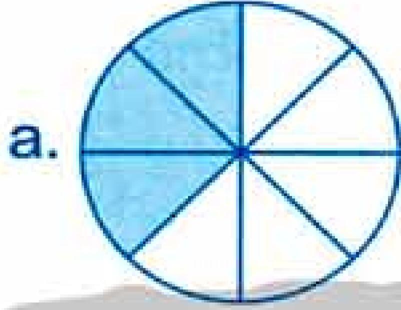
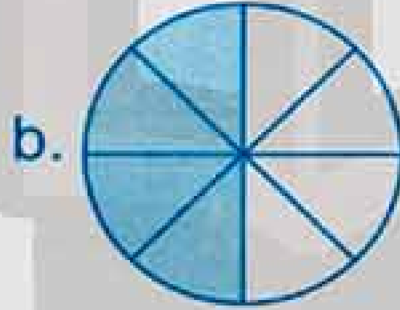
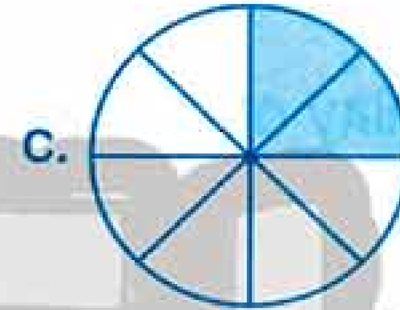
Answer the following questions :

First Choose the correct answer :

(1) Which of the following represent an odd number ?

a. 5 361 b. 5 362 c. 5 366

(2) Which of the following fractions represent $\frac{1}{4}$?

a.  b.  c. 

(3) $\frac{1}{7} + \frac{2}{7} =$ ....

a. 1 b. $\frac{3}{7}$ c. $\frac{1}{7}$

(4) The suitable unit for measuring the length of the pencil is ....

a. metre. b. centimetre. c. kilometre.

(5) The side length of a square its perimeter 20 cm. = ... cm.

a. 5 b. 80 c. 10

(6) The number is multiplied by 213 the result will be 21 300 is ....

a. 10 b. 100 c. 1 000

(7) A father wants to distribute 183 pieces of chocolate among his 3 his sons , then the share of each son = ... pieces.

a. 16 b. 61 c. 26

(8) The normal human's temperature = ... C

a. 70° b. 30° c. 37°

(9) The fraction if added to $\frac{4}{6}$ the result will be 1 is ....

a. $\frac{4}{6}$ b. $\frac{2}{6}$ c. $\frac{4}{4}$

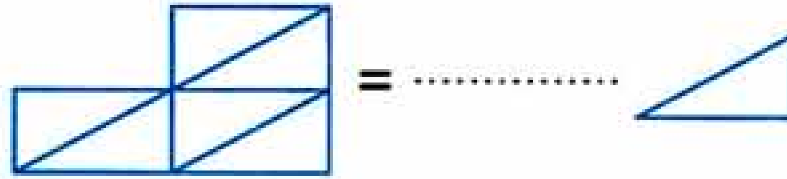
(10) Telling the time : It's ....



a. 6 o'clock

b. 5 to 6

c. 5 past 6

(11) The area of the figure  = ... (triangle)

a. 3 b. 4 c. 6

(12) The probability of appearance of an odd number when tossing a die once is ....

a. 1 b. half c. zero

(13) The probability of the impossible event = ...

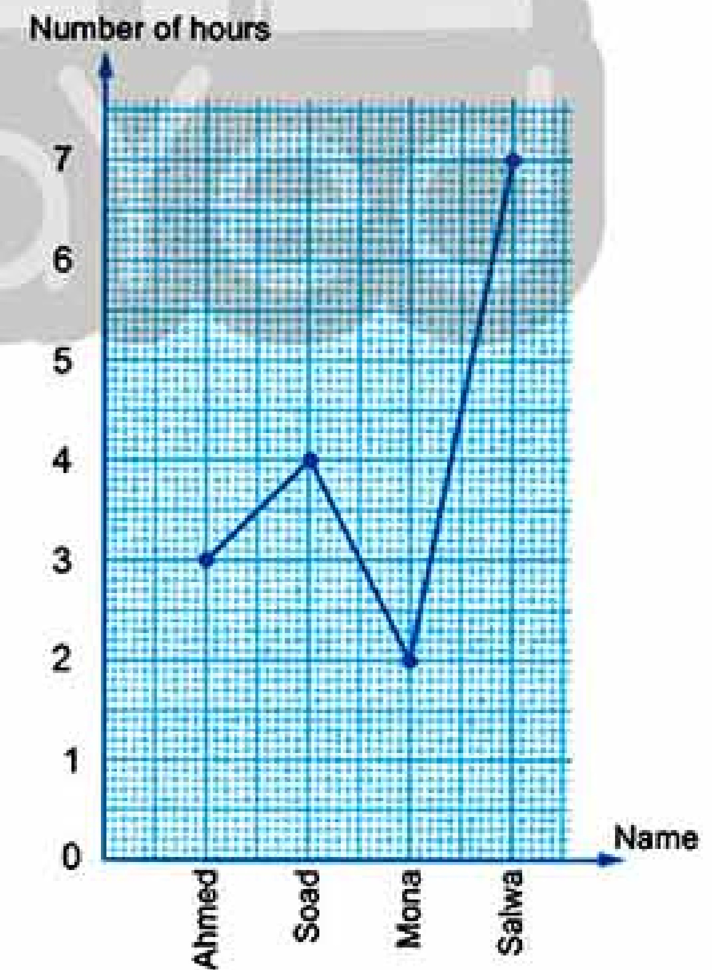
a. 1 b. half c. zero

Second Complete the following :

(14) $\frac{16}{24} = \frac{4}{\dots}$

(15) The opposite figure shows the number of hours of studying for a group of pupils , study the figure , then state the name of the pupil who study the greatest numbers of hours.

The pupil is ....



(16) 230 × 4 = ...

(17) 4 , 40 , 400 , 4 000 , ... , ...

(in the same pattern)

(18) The probability of appearance of a head when tossing a coin once = ...

(19) 550 ÷ 5 = ...



Third **Answer the following :**

(20) Amr bought 4 jackets , if the price of each one is L.E. 375

Find what Amr paid.

What Amr paid = ... = L.E. ....

(21) Arrange the following in an ascending order :

2 days and 2 hours , 48 hours , 5 days

The order is : .... , ... , ...

(22) Arrange the following in a descending order :

$\frac{1}{2}$, $\frac{2}{8}$, $\frac{1}{6}$, $\frac{1}{5}$

The order is : .... , ... , ... , ...

Model 2

Answer the following questions :

First **Choose the correct answer :**

(1) A box contains 10 symetric balls , 5 balls are white and the rest is red if a ball is drawn randomly , then the probability of the drawn ball is red = ...

a. $\frac{1}{4}$ b. $\frac{1}{3}$ c. $\frac{1}{2}$

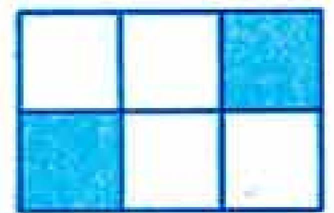
(2) Two days and two hours = ... hours.

a. 40 b. 50 c. 96

(3) 136 × 100 = ...

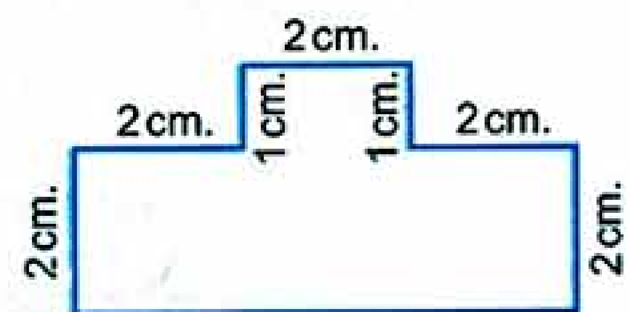
a. 360 b. 13 600 c. 136 000

(4) The fraction which represents the shaded part is ....



a. $\frac{2}{8}$ b. $\frac{1}{2}$ c. $\frac{1}{3}$

(5) The perimeter of the opposite figure = ... cm.



a. 12

b. 18

c. 20



(6) A father wants to distribute L.E. 206 between his sons Mohamed and Ahmed , then the share of each of them = ... pounds.

a. 102 b. 103 c. 120

(7) The fraction if added to $\frac{1}{4}$ the result will be $\frac{2}{4}$ is ....

a. $\frac{1}{2}$ b. $\frac{1}{3}$ c. $\frac{1}{4}$

(8) The probability of the certain event = ...

a. $\frac{1}{2}$ b. zero c. 1

(9) Which of the following number is not an even number ?

a. 268 b. 407 c. 610

(10) The suitable unit for measuring the length of your class is the ....

a. metre. b. centimetre. c. kilometre.

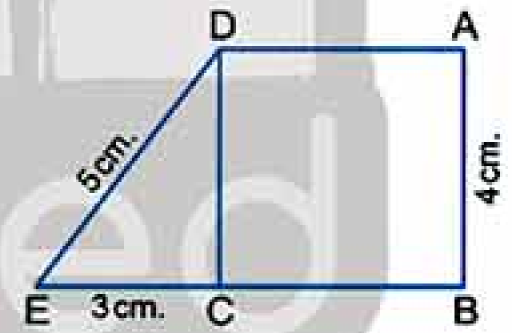
(11) The area of the opposite figure = ...

a. 4 b. 8 c. 12

(12) Soha wanted to buy 813 notes for 6 pounds each , then the total price requires .... operation.

a. addition b. multiplication c. division

(13) In the opposite figure , ABCD is a square , AB = 4 cm. , DE = 5 cm. , CE = 3 cm. , then the perimeter of the figure ABED = ... cm.



a. 22 b. 20 c. 24

Second Complete the following :

(14) The number that if multiplied by 615 , then result will be 615 000 is ....

(15) The probability of the impossible event is ....

(16) 12 , 36 , 108 , ... , ... (in the same pattern)

(17) The following table shows the number of hours that some pupils study , the difference between the greatest and the smallest numbers of hours = ... hours.

The name	Mona	Ahmed	Salma	Mohamed
Number of hours	6	8	4	5



(18) The number that if divided by 8 the result will be 16 is ....

(19) $\frac{12}{27} = \frac{4}{.....}$



Third **Answer the following :**

(20) How many grams are there in two and half kg. ?

Number of grams = ...

(21) A man distributed 963 pounds among his 3 sons equally.

What is the share of each of them ?

The share of each one = ... = ... pounds.

(22) A rrange the following in a descending order :

$\frac{5}{7}$, $\frac{2}{7}$, 1 , $\frac{4}{7}$

The order is : .... , ... , ... , ...

Model 3

Answer the following questions :

First **Choose the correct answer :**

(1) Appearing a tail when tossing a coin once is .... event.

a. certain b. possible c. impossible

(2) The perimeter of the figure [2 cm., 1 cm., 1 cm., 2cm.] = ... cm.

a. 6 b. 9 c. 12

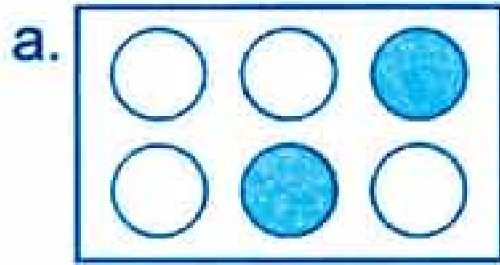
(3) One year and quarter year = ... months.

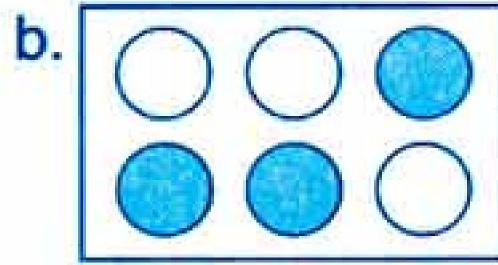
a. 12 b. 14 c. 15

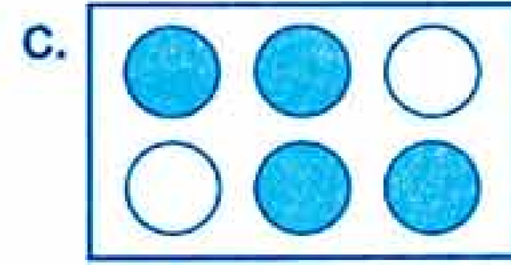
(4) The human temperature is measured by using ....

a. metre. b. thermometer. c. centimetre.

(5) The coloured circles represent half in the figure ....

a. 

b. 

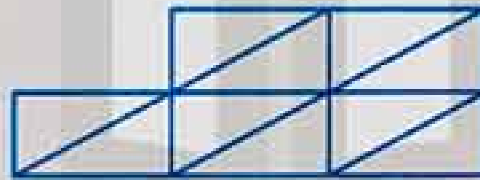
c. 

(6) The number that multiplied by 5 , the result will be 255 is ....

a. 5 b. 51 c. 15

(7) A bag contains 10 symmetrical balls , 5 of them are red and the rest is white , then the probability of the drawn ball is white is ....

a. $\frac{1}{4}$ b. $\frac{1}{3}$ c. $\frac{1}{2}$

(8) The area of the figure  = ... ▭

a. 5 b. 10 c. 2

(9) A teacher bought 402 notes to distribute them among some pupils, if the price of one note equals 4 pounds , then the total cost requires .... operation.

a. addition b. multiplication c. division

(10) Which of the following numbers represent an odd number ?

a. 6 tens + 6 b. 125×5 c. $306 \div 3$

(11) A man distributed 603 pounds equally among his three sons , then the share of each son = ... pounds.

a. 101 b. 102 c. 201

(12) The fraction which added to $\frac{5}{7}$ the result equals a whole one is ....

a. $\frac{1}{7}$ b. $\frac{2}{7}$ c. $\frac{7}{7}$

(13) The telling time of [clock] is ....

a. quarter past seven.

b. thirty five past three.

c. seven o'clock.



Second Complete the following :

(14) The number that if divided by 6 the result will be 13 is ....

(15) 6 , 12 , 24 , ... , ... , ... (in the same pattern)

(16) The following temperatures recorded in one city during 6 consecutive days as follows :

Day	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday
Temperatures	30°	29°	32°	39°	36°	31°

The day was the temperature is the highest is ....

(17) The probability of getting a tail when tossing a coin once = ...

(18) 2 154 × 3 = ...

(19) $\frac{5}{8} = \frac{\cdots\cdots}{24}$

Third Answer the following questions :

(20) Samira has 20 banknotes of 100 pounds , 3 banknotes of 200 pounds , find the total money of what Samira has.

Samira has = ... = ... pounds.

(21) Arrange in a descending order :

one month , 24 days , 24 hours

The order is : .... , ... , ...

(22) Arrange in an ascending order :

$\frac{1}{8}$, $\frac{2}{8}$, $\frac{5}{8}$, $\frac{3}{8}$

The order is : .... , ... , ... , ...





Some Schools' Examinations from Different Governorates

1 Cairo Governorate

Nasr City Educational Zone
St. Fatima Language School



Answer the following questions :

1 Choose the correct answer :

(1) 20 × .... = 200 (1 or 10 or 100)

(2) Four fifths = ... ($\frac{4}{5}$ or $\frac{5}{4}$ or $\frac{4}{7}$)

(3) The fraction if added to $\frac{1}{5}$ the result will be $\frac{2}{5}$ is .... ($\frac{3}{10}$ or $\frac{1}{3}$ or $\frac{1}{5}$)

(4) The area of the opposite figure = ... (4 or 8 or 12)

(5) The weight of an elephant = ... (10 000 gm. or 300 kg.)

(6) 62 ÷ 2 ☐ 155 ÷ 5 (< or > or =)

(7) The perimeter of the square whose side length is 3 cm. = ... cm. (6 or 9 or 12)

(8) The fraction which represents the shaded part is .... ($\frac{5}{6}$ or $\frac{4}{6}$ or $\frac{1}{6}$)

(9) The probability of certain event is .... (1 or $\frac{1}{2}$ or zero)

(10) The fraction which added to $\frac{5}{7}$ the result equals whole one is .... ($\frac{1}{7}$ or $\frac{2}{7}$ or $\frac{7}{7}$)

(11) One and half hour = ... minutes. (30 or 90 or 100)

(12) The probability of the impossible event = ... (zero or 1 or half)

(13) The length of a school notebook = ... (25 cm. or 1 m. or 1 km.)

2 Complete :

(1) 624 ÷ 2 = ...

(2) 6 hundreds = ...

(3) The probability of number 4 when tossing a die once = ...

(4) 8 kg. = ... gm.



(5) 1 day + 5 hours = …………… hours.

(6) Perimeter of a triangle whose side lengths are 4 cm. , 5 cm. and 8 cm.
= …………… + …………… + …………… = …………… cm.

3 Answer the following :

(1) Moustafa bought 84 notebooks , he distributed them among his 4 brothers. How many notebooks did each brother take ?
The share of each brother = ……………………………………………

(2) **The following table shows the number of hours that some pupils study :**

Name	Mona	Ahmed	Samia	Mohamed
Number of hours	6	8	4	5

Complete :
The difference between the greatest and smallest numbers of hours = ……………

(3) **Arrange the following numbers in an ascending order :**

$\frac{1}{8}$, $\frac{6}{8}$, $\frac{3}{8}$ and $\frac{7}{8}$

……………………………………………………………………………………

2 Cairo Governorate

Western Cairo Educational Zone
Mathematics Inspection



Answer the following questions :

1 Choose the correct answer :

(1) 20 × 10 = …………… (120 or 102 or 200)

(2) $\frac{11}{13}$ ☐ $\frac{7}{13}$ (= or < or >)

(3) The area of the figure [figure of 6 squares] is …………… ☐ (4 or 6 or 8)

(4) The sun rises in the east …………… (certain or possible or impossible)

(5) 7 metres = …………… centimetres. (70 or 700 or 7 000)

(6) The perimeter of the square whose side length is 1 cm. = …………… cm. (1 or 4 or $\frac{1}{4}$)

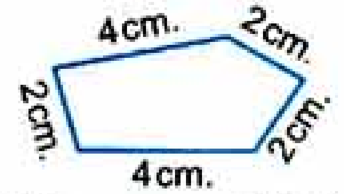
(7) .... is an odd number. (268 **or** 407 **or** 410)

(8) Four fifths = ... ($\frac{4}{5}$ **or** $\frac{5}{4}$ **or** $\frac{2}{5}$)

(9) The perimeter of the rectangle whose dimensions are 4 cm. , 2 cm.
= .... cm. (12 **or** 14 **or** 16)



(10) The probability of the impossible event = ... (1 **or** $\frac{1}{2}$ **or** 0)

(11) The area of the figure  is ....  (3 **or** 4 **or** 5)

(12) $\frac{5}{8} = \frac{\cdots\cdots}{24}$ (13 **or** 14 **or** 15)

(13) The perimeter of the opposite figure = ... cm.

4 cm. 2 cm. 2 cm. 2 cm. 4 cm.

(12 **or** 14 **or** 16)

---

❷ Complete the following :

(1) 43 × 5 = ...

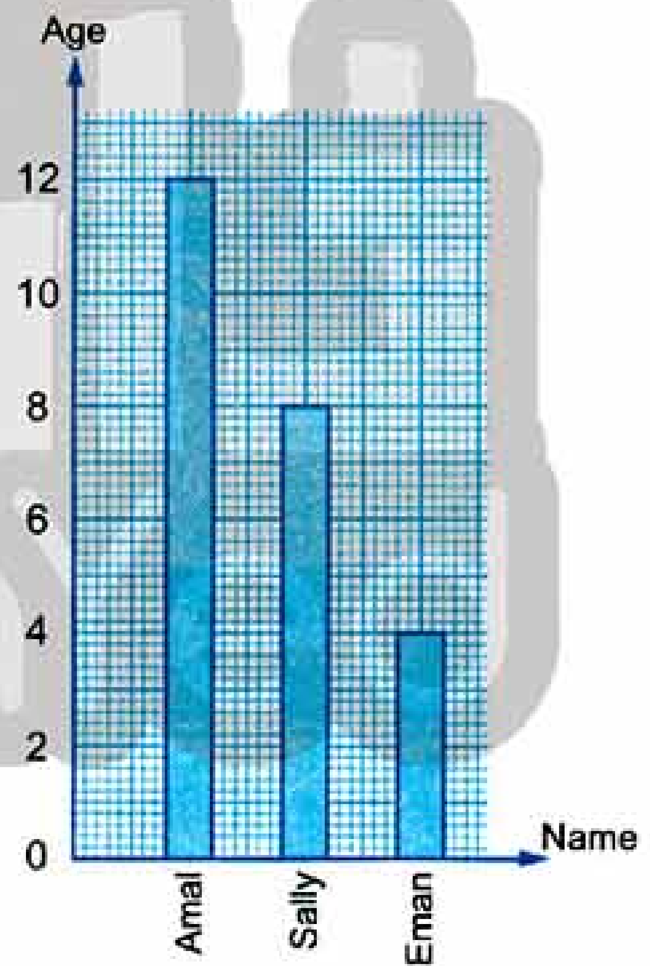
(2) The probability of appearance the number 5 on the upper face of a dice = ...

(3) 3 kg. = ... gm.

(4) $\frac{3}{7} + \frac{1}{7}$ = ...

(5) 1 day = ... hours.

(6) **In the opposite figure :**
The oldest girl is ....



---

❸ Answer the following :

(1) **Find :** 666 ÷ 6 = ...

(2) Find the perimeter of the triangle whose side lengths are 4 cm. , 5 cm. and 8 cm.
The perimeter of the triangle = ... + ... + ... = ... cm.

(3) **Arrange the following fractions in an ascending order :**

$\frac{2}{9}$, $\frac{7}{9}$, $\frac{5}{9}$ and 1

The ascending order is : .... , ... , ... and ....







3 Cairo Governorate

Dar El-Salam and El-Basateen Educational Zone
Mathematics Department

Answer the following questions :

1 Complete :

(1) 5 kg. = ... gm.

(2) A square with side length 5 cm. , its perimeter = ... cm.

(3) $\frac{3}{7} + \frac{2}{7} =$ ....

(4) The probability of the impossible event = ...

(5) The smallest odd number is ....

(6) Half an hour = ... minutes.

(7) The area of this figure [figure] = ... [ ]

(8) 208 ÷ 2 = ...

(9) The perimeter of a triangle whose side lengths are 4 cm. , 3 cm. and 7 cm. = ... cm.

(10) 2 weeks = ... days.

(11) 8 m. = ... cm.

(12) $\frac{7}{9} - \frac{5}{9} =$ ....

(13) 2 × 1 000 = ... thousands.

(14) $\frac{6}{10} = \frac{3}{......}$

(15) (5 + 9) ÷ 7 = ...

2 Choose the correct answer :

(16) Three fifths = ... ($\frac{5}{3}$ or $\frac{3}{5}$ or $\frac{5}{6}$)

(17) The number .... is an even number. (45 or 44 or 23)

(18) The event that the sun rises from the east is ....
(certain or impossible or possible)

(19) The time of one session is measured by ....
(days or thermometer or minutes)

(20) The normal body temperature = ... °C (20 or 100 or 37)

(21) 10 × 11 = ... (1 010 or 1 100 or 110)

(22) If we flip a coin once , then the probability of getting a head = ...

(0 or $\frac{1}{3}$ or $\frac{1}{2}$)

(23) The fraction for the shaded part is .... ($\frac{1}{4}$ or $\frac{1}{2}$ or $\frac{1}{3}$)

3 Answer the following :

(24) **Find the answer of :**

[a] $154 \times 3 =$ ....   [b] $4\ 008 \div 4 =$ ....

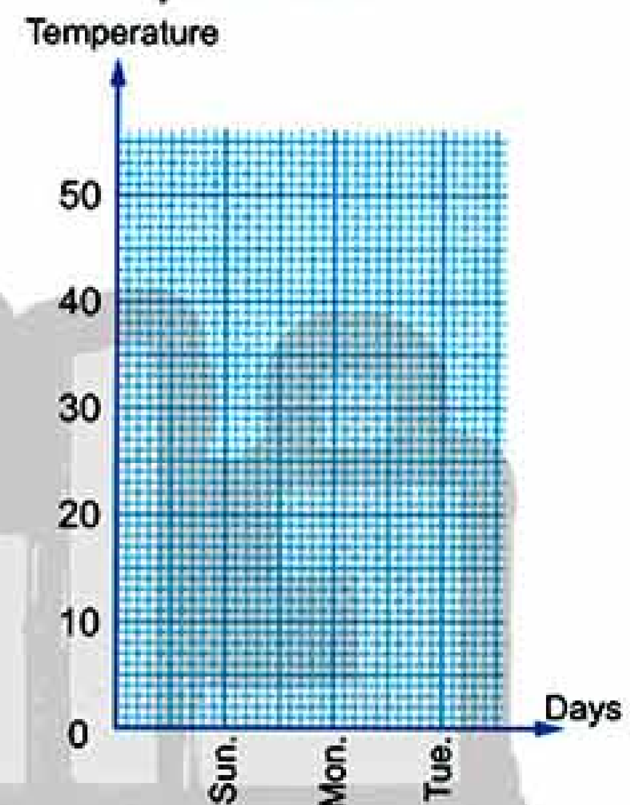
(25) Ahmad distributed 396 pounds among his 3 sons equally , what is the share of each of them ?

The share of each son = ... ÷ .... = ... pounds.

(26) **The following table shows the temperature degrees for 3 days :**

Days	Temperature
Sunday	20
Monday	10
Tuesday	30

Represent these data by a bar-lines graph.



4 Cairo Governorate

Al-Khalifa and Al-Mokatam Educational Zone
Alhelmia Official Lang. School



Answer the following questions :

1 Choose the correct answer :

(1) $1 - \frac{2}{7} =$ .... ($\frac{3}{7}$ or $\frac{5}{7}$ or $\frac{9}{7}$)

(2) If $135 \times 4 = 630$, then $630 \div 4 =$ .... (120 or 125 or 135)

(3) 7 hundreds = 7 × .... (10 or 100 or 1 000)

(4) The area of [figure] is .... △ (4 or 5 or 3)

(5) The temperature of the normal person = ... C

(35° or 37° or 42°)

(6) The probability of the certain event = ... ($\frac{1}{2}$ or zero or 1)

(7) One year and two months = ... months. (12 or 14 or 15)



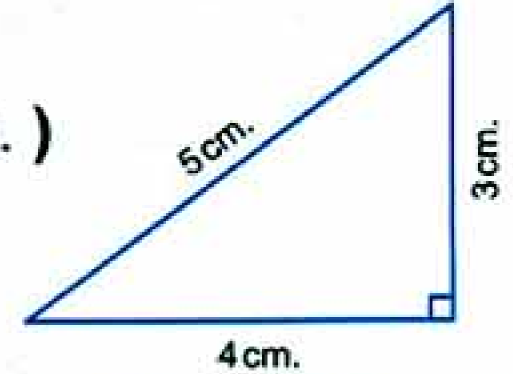

2 Choose the correct answer :

(8) Which of the following represents an even number ?
(731 **or** 134 **or** 817)

(9) $\frac{3}{5} + \frac{1}{5} =$ .... ($\frac{4}{10}$ **or** $\frac{3}{5}$ **or** $\frac{4}{5}$)

(10) .... $\div 3 = 36$ (21 **or** 12 **or** 108)

(11) The perimeter of the opposite figure = ...
(9 cm. **or** 11 cm. **or** 12 cm.)



(12) Seven tenths ☐ 1 (> **or** = **or** <)

(13) $3 \times 7 \times 100 =$ .... (210 **or** 3 700 **or** 2 100)

3 Complete :

(14) $217 \times 4 =$ ....

(15) Telling the time : ....



(16) $\frac{12}{27} = \frac{4}{......}$

(17) $963 \div 3 =$ ....

(18) The probability of getting a head when tossing a coin once = ...

(19) 3 , 30 , 300 , ... (in the same pattern)

4 Answer the following :

(20) Ayman bought 6 pairs of shoes , if the price of each pair of shoes is L.E. 95 How much money did he pay ?
He paid = ... = L.E. ....

(21) Calculate the perimeter of a rectangle of length 7 cm. and width 3 cm.
The perimeter = ... = ... cm.

5 Cairo Governorate

New Cairo Educational Zone
Akhnaton Egyptian College



Answer the following questions :

1 Choose the correct answer :

(1) $\frac{3}{8}$ ☐ $\frac{5}{8}$ (< **or** > **or** =)

(2) Four fifths = ... ($\frac{5}{4}$ **or** $\frac{4}{5}$ **or** 45)

(3) Twenty three tens = ... (230 or 23 or 2 310)

(4) 3 009 ÷ 3 = ... (3 001 or 1 003 or 3 003)

(5) Which of these numbers is an even ? (35 or 28 or 4 261)

(6) 102 × 7 = ... (417 or 714 or 741)

(7) 3 000 grams = ... kilograms. (3 or 30 or 300)

(8) A square its side length is 8 , then its perimeter = ... cm.

(24 or 32 or 48)

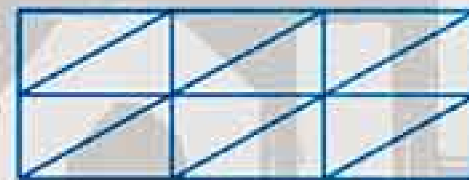
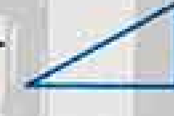
(9) .... is an odd number. (1 220 or 2 553 or 9 664)

(10) The temperature degree of the human body is measure by ....

(metre or thermometer or kilometre)

(11) 3 × 50 ☐ fifteen tens. (> or < or =)

(12) $\frac{5}{6} + \frac{8}{6} = \frac{\dots}{\dots}$ ($\frac{58}{6}$ or $\frac{3}{6}$ or $\frac{13}{6}$)

(13) The area of this figure  = ... 

(10 or 5 or 12)

2 Complete :

(1) $\frac{3}{8} = \frac{6}{\dots}$

(2) 4 × 7 × 100 = ...

(3) 2 458 m. = ... km. , ... m.

(4) $1 - \frac{3}{5} =$ ....

(5) 2 010 ÷ 2 = ...

(6) 67 m. = ... cm.



3 Answer the following :

(1) Arrange in an ascending order :

$\frac{4}{8}$, $\frac{1}{8}$, $\frac{2}{8}$ and $\frac{6}{8}$

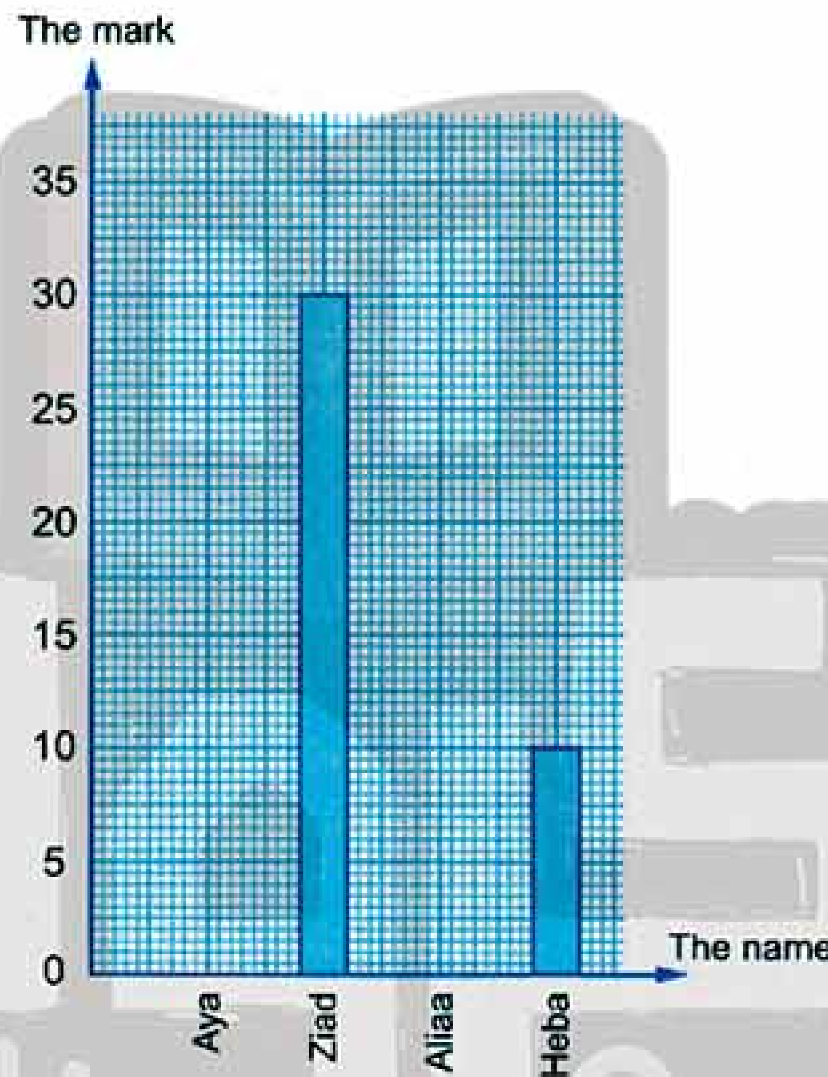
The order is : .... , ... , ... and ....




(2) The side lengths of a triangle are 6 cm. , 7 cm. and 8 cm.
Find its perimeter.
The perimeter = ... + ... + ... = ... cm.

(3) The following table shows the marks of 4 pupils in an exam of mathematics , complete the table and the drawing :

The name	Aya	Ziad	Aliaa	Heba
The mark	15	....	25	....



6 Giza Governorate

El-Dokki Educational Directorate
Talaee Islamic Language School



Answer the following questions :

1 Find the result :

(1) 408 ÷ 2 = ...

(2) $\frac{1}{7} + \frac{2}{7}$ = ...

(3) $\frac{5}{9} - \frac{3}{9}$ = ...

(4) 9 × 100 = ...

2 Complete :

(1) The time [clock] is ....

(2) A father distributed 183 pieces of chocolate among his 3 sons , then the share of each one = ... ÷ .... = ... pieces.

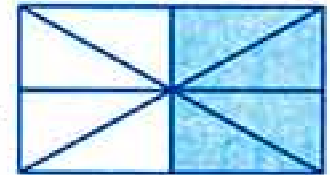
(3) The perimeter of figure (rectangle 3cm. × 2cm.) is ....

(4) 6 , 60 , 600 , ... , ... (in the same pattern)

(5) The probability of getting a head when we tossing a coin once = ...

(6) $1 = \frac{......}{5} = \frac{4}{......}$

3 Choose the correct answer :

(1) The fraction which represents the shaded parts is .... 

($\frac{2}{3}$ or $\frac{1}{2}$ or $\frac{1}{4}$)

(2) Two days = ... hours. (120 or 48 or 24)

(3) The probability of the certain event is .... (1 or $\frac{1}{2}$ or zero)

(4) .... is a length unit. (Gram or Kilogram or Metre)

(5) The normal human temperature is .... C (37° or 30° or 73°)

(6) Four sixths ☐ $\frac{3}{6}$ (> or = or <)

(7) The area of figure  is .... ◺ (6 or 12 or 10)

(8) .... is an odd number. (125 or 206 or 138)

(9) 3 kg. = ... gm. (30 or 300 or 3 000)

(10) 2 × 5 × 27 = ... (270 or 2 700 or 27)

(11) $\frac{15}{25} = \frac{......}{5}$ (7 or 3 or 5)

(12) The perimeter of square its side length is 5 cm. is ....

(5 × 4 or 5 × 3 or 5 × 2)

4 Answer the following :

(1) **Arrange in an ascending order :**

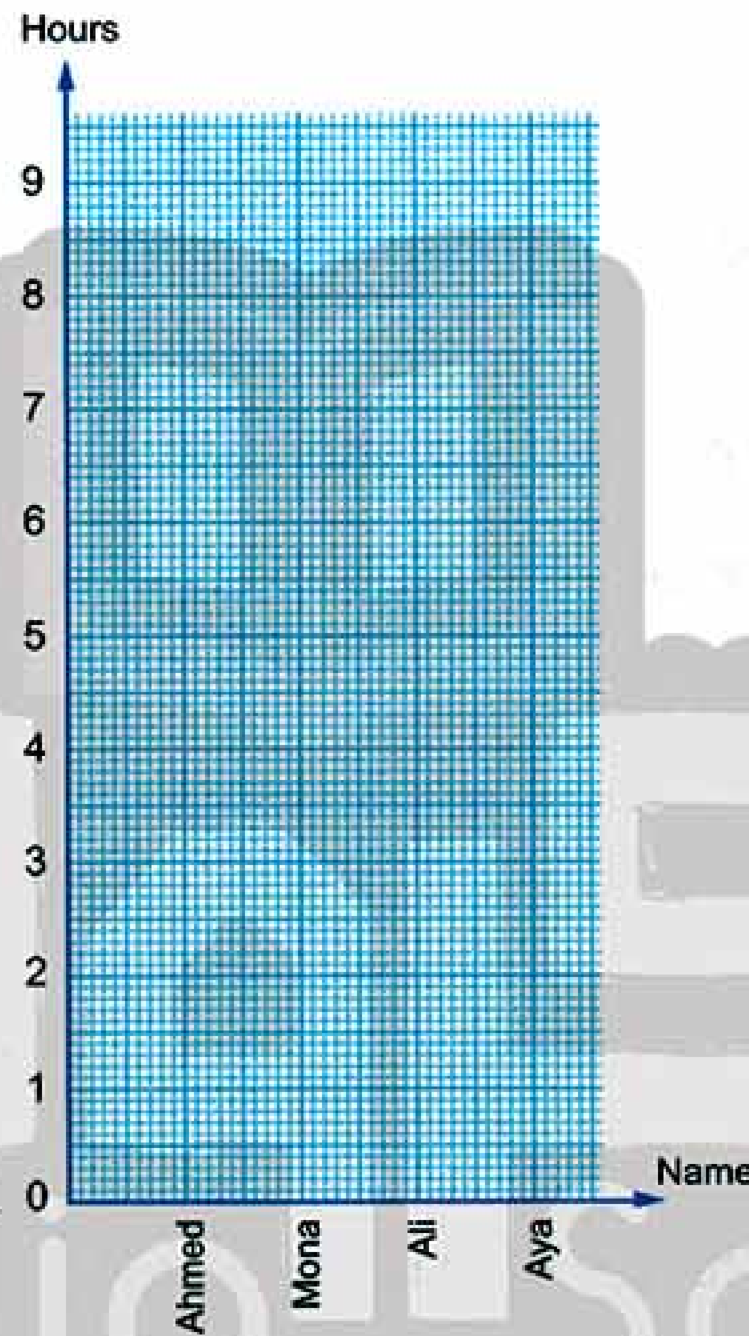
$\frac{1}{5}$, $\frac{4}{5}$, $\frac{3}{5}$ and $\frac{2}{5}$

The order is : .... , ... , ... and ....

(2) The following table shows the number of hours that some pupils study :

Name	Ahmed	Mona	Ali	Aya
Hours	8	6	7	5

Represent this data by bar-lines graph.



7 Giza Governorate

El-Haram Educational Zone
Mostakbal Modern Language School



Answer the following questions :

1 Choose the correct answer :

(1) 618 is an .... number. (odd *or* even *or* prime)

(2) $\frac{1}{4}$ ☐ $\frac{1}{2}$ (> *or* = *or* <)

(3) 42 × 10 = ... (4 200 *or* 420 *or* 240 *or* 42)

(4) The perimeter of triangle its side lengths are 5 cm. , 3 cm. and 4 cm. = ... cm. (14 *or* 12 *or* 15 *or* 18)

(5) $2 \times 5 \times 8 =$ .... (80 or 800 or 8 250 or 420)

(6) $\frac{4}{8}$ = ... (in letters)

(fourth or eight fourths or four eighths or eighth)

(7) The event that the sky rains gold is ....

(certain or possible or impossible or sure)

(8) The area of that figure [figure: rectangle divided into 6 squares] = ... □

(4 or 6 or 10 or 2)

(9) The perimeter of square whose side length is 6 cm. = ... cm.

(42 or 14 or 24 or 20)

(10) $2\frac{1}{4}$ km. = ... m. (2 250 or 2 500 or 2 000 or 2 750)

(11) As tossing a coin once, the probability of appearing a head is ....

($\frac{1}{6}$ or 1 or $\frac{1}{2}$ or zero)

(12) The perimeter of rectangle whose length is 6 cm. and its width is 4 cm.
= .... cm. (20 or 10 or 48 or 24)

(13) $\frac{5}{7} - \frac{2}{7} =$ .... (1 or $\frac{3}{7}$ or $\frac{7}{3}$ or $\frac{3}{14}$)

2 Complete :

(1) The probability of the impossible event = ...

(2) $\frac{2}{6} = \frac{\dots}{12}$

(3) 4 826 ÷ 2 = ...

(4) $36 \times 100 =$ ....

(5) $324 \times 4 =$ ....

(6) A box contains 4 blue balls, 5 yellow balls. If a ball is drawn randomly, then the probability of getting a blue ball = ...

3 Answer the following :

(1) Ahmed distributed 693 pounds equally among his three children during the feast. What was the share of each child ?

The share of each one = ... = ... pounds.





(2) Arrange in an ascending order :

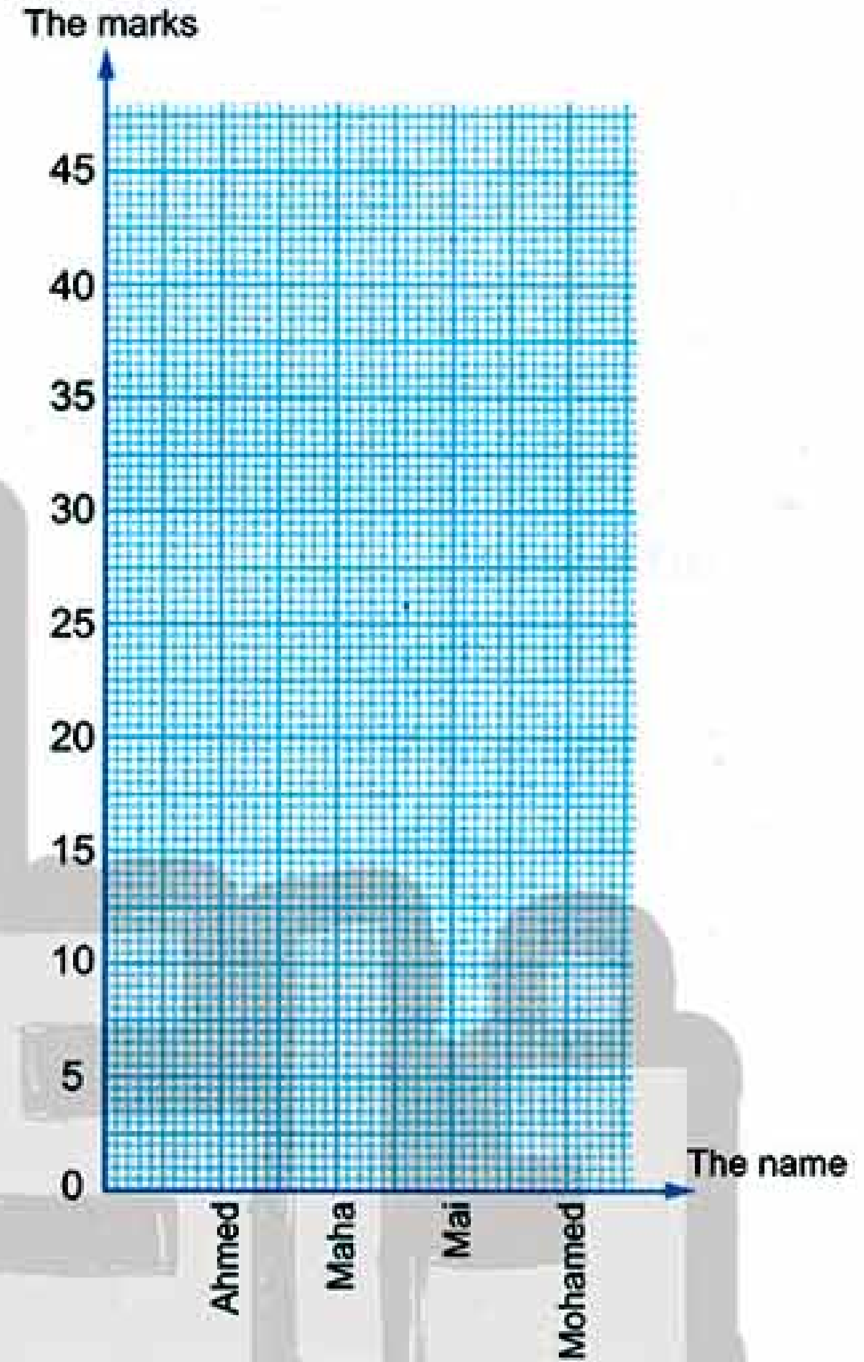
400 cm. , 6 m. , 925 cm. and 3 m.

The order is : .... , ... , ... and ....

(3) The following table shows the marks of some pupils in maths in one month :

The name	The mark
Ahmed	25
Maha	30
Mai	20
Mohamed	45

Represent these data by a broken line.



8 Giza Governorate

Abo Al Nomrus Educational Zone
Maths Inspection



Answer the following questions :

1 Choose the correct answer :

(1) 1 day = ... hours. (7 *or* 6 *or* 24)

(2) Five sixths = ... ($\frac{6}{5}$ *or* $\frac{5}{6}$ *or* 5)

(3) $\frac{4}{4}$ ☐ 1 (> *or* = *or* <)

(4) The sun rises in the east , it's ....

(impossible *or* possible *or* certain)

(5) The normal human body temperature = ... °C

(35 *or* 37 *or* 42)

(6) The number of days in a year = ... (365 *or* 370 *or* 350)

(7) $\frac{2}{3} - \frac{1}{3}$ ☐ 1 (> or = or <)

(8) 770 ÷ 7 = ... (101 or 110 or 707)

(9) The unit of measuring length is .... (gm. or minute or metre)

(10) It's .... that hen can give birth.
(possible or certain or impossible)

(11) 5 , 10 , 15 , ... , 25 (in the same pattern) (10 or 30 or 20)

(12) The fraction ⬡⬡⬡ is .... ($\frac{1}{3}$ or $\frac{1}{4}$ or $\frac{1}{5}$)

(13) .... is an odd number. (12 or 14 or 15)

2 Complete :

(1) The time is ....

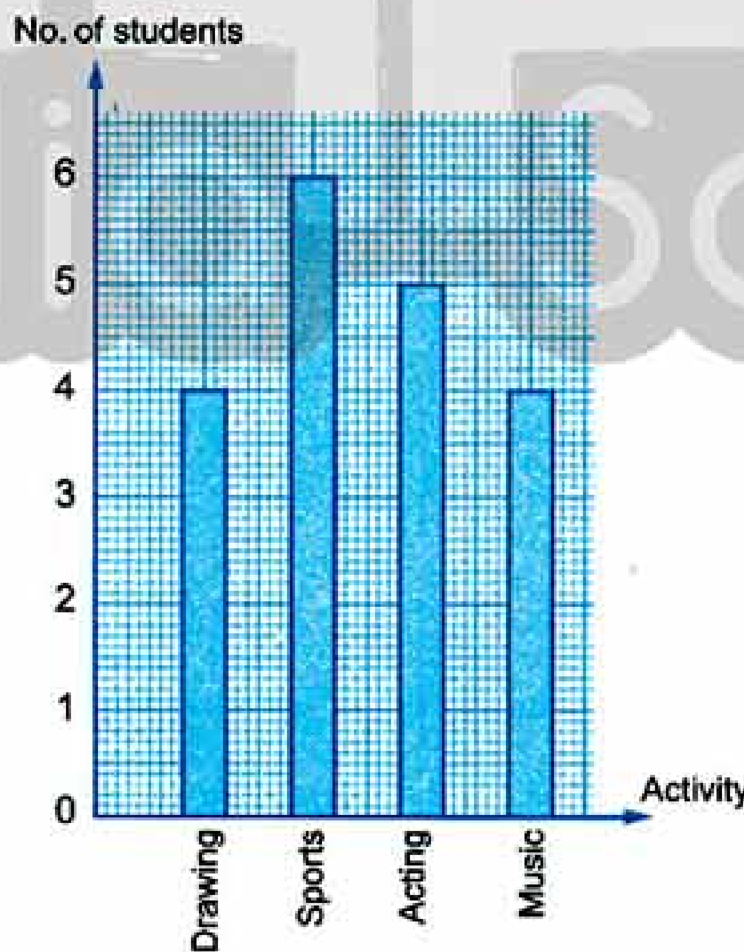
(2) 581 × 2 = ...

(3) 804 ÷ 4 = ...

(4) $\frac{1}{8} + \frac{4}{8}$ = ...

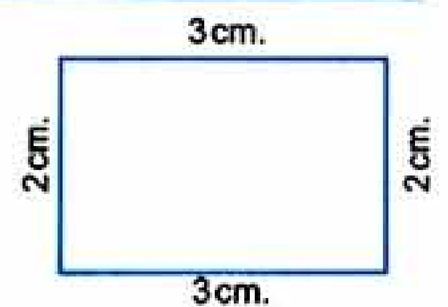
(5) A bag contains 4 red balls and 5 white balls , the probability of getting a red ball randomly = ...

(6) From the following graph :
The activity that has the greatest number of students participating is ....



3 Answer the following :

(1) **Find the perimeter of the opposite figure :**
The perimeter = ...







(2) Arrange the following fractions in an ascending order :

$\frac{1}{8}$, $\frac{7}{8}$, $\frac{5}{8}$ and $\frac{3}{8}$

The order is : .... , ... , ... and ....

(3) Mostafa bought 3 m. of cloth the price of each is 89 pounds.

How much did he pay ?

He paid = ... × .... = ...

9 Alexandria Governorate

Eastern Educational Zone
Taymour English School



Answer the following questions :

1 Complete the following :

(1) 3 × 1 000 = ...

(2) 550 ÷ 5 = ...

(3) The even number just after the number 306 is ....

(4) $\frac{1}{7} + \frac{3}{7}$ = ...

(5) The probability of the impossible event = ...

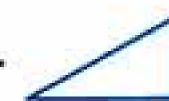
(6) The probability of getting a head when tossing a coin once = ...

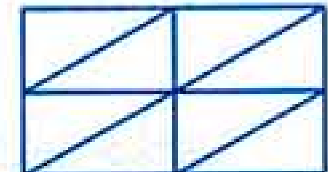
2 Choose the correct answer :

(1) The perimeter of square whose side length is 2 cm. is .... cm.

(2 or 4 or 8)

(2) The perimeter of triangle whose sides lengths are 3 cm. , 4 cm. and 6 cm. is .... cm. (13 or 12 or 5)

(3) The area of the opposite figure is .... 



(4 or 8 or 12)

(4) It's ....



(10 past 4 or 10 to 4 or 4 o'clock)

(5) (2 × 5) × 48 = ... (48 or 480 or 4 800)



(6) $\frac{2}{3} = \frac{\cdots\cdots}{6}$ (1 or 3 or 4)

(7) A box contains 12 balls , 5 are red , 7 are blue , the probability of the drawn ball is blue is .... ($\frac{7}{12}$ or $\frac{5}{12}$ or 7)

(8) 1 year and 2 months = ... months. (8 or 12 or 14)

(9) Sixty seven hundreds = ... (6 700 or 670 or 607)

(10) The number if multiplied by 213 the result will be 21 300 is ....

(10 or 100 or 1 000)

(11) The probability of appearance of an odd number when tossing a die once is .... (1 or half or zero)

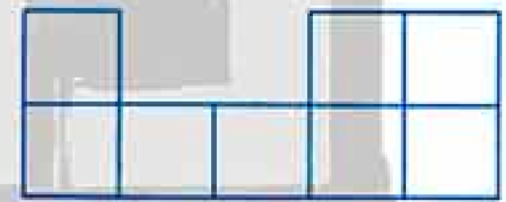
(12) The fraction added to $\frac{4}{6}$ the result will be 1 is ....

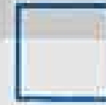
($\frac{4}{4}$ or $\frac{4}{6}$ or $\frac{2}{6}$)

(13) A father wants to distribute L.E. 206 between his two sons , then the share of each of them = L.E. .... (103 or 102 or 120)

3 Answer the following :

(1) From the opposite figure , find :



[a] The area of the figure = ... 

[b] The perimeter of the figure = ... length units.

(2) Arrange the following fractions in an ascending order :

$\frac{1}{10}$, $\frac{3}{10}$, $\frac{2}{10}$ and $\frac{9}{10}$

The order is : .... , ... , ... and ....

(3) **Find :** 2 154 × 3 = ...

10 Alexandria Governorate

West Educational Zone
Math's Supervision



Answer the following questions :

1 Choose the correct answer :

(1) The sun rises from the east is .... event.

(certain or possible or impossible)



(2) Which of these numbers is odd ? (244 or 300 or 211)

(3) The normal human body temperature is .... °C (37 or 40 or 73)

(4) The probability of the impossible event = ... (1 or 0 or $\frac{1}{2}$)

(5) 5 kg. = ... grams. (50 or 500 or 5 000)

(6) An hour and 25 minutes = ... minutes. (60 or 35 or 85)

(7) 933 ÷ 3 = ... (311 or 113 or 300)

(8) 7 metres = ... cm. (70 or 700 or 7 000)

(9) $1 - \frac{1}{4}$ = ... ($\frac{1}{4}$ or $\frac{3}{4}$ or $\frac{1}{2}$)

(10) $\frac{1}{5} + \frac{1}{5}$ ☐ $\frac{3}{5} - \frac{1}{5}$ (< or > or =)

(11) $\frac{2}{3} = \frac{\ldots\ldots}{9}$ (2 or 4 or 6)

(12) One day and two hours = ... hours. (26 or 24 or 14)

(13) The area of the figure [figure] = ... ☐ (3 or 4 or 6)

2 Complete each of the following :

(1) 9 km. = ... m.

(2) $\frac{4}{7} + \frac{2}{7}$ = ...

(3) 812 ÷ 4 = ...

(4) Perimeter of square = side length × ....

(5) Three sevenths = $\frac{\ldots\ldots}{\ldots\ldots}$

(6) The perimeter of triangle whose side lengths are 5 cm. , 7 cm. and 3 cm. = ... cm.

3 Answer the following :

(1) **Arrange the following fractions in an ascending order :**

$\frac{3}{13}$, $\frac{7}{13}$, $\frac{1}{13}$ and $\frac{5}{13}$

The order is : .... , ... , ... and ....

(2) Ahmed distributed 84 apples equally among 4 boxes.

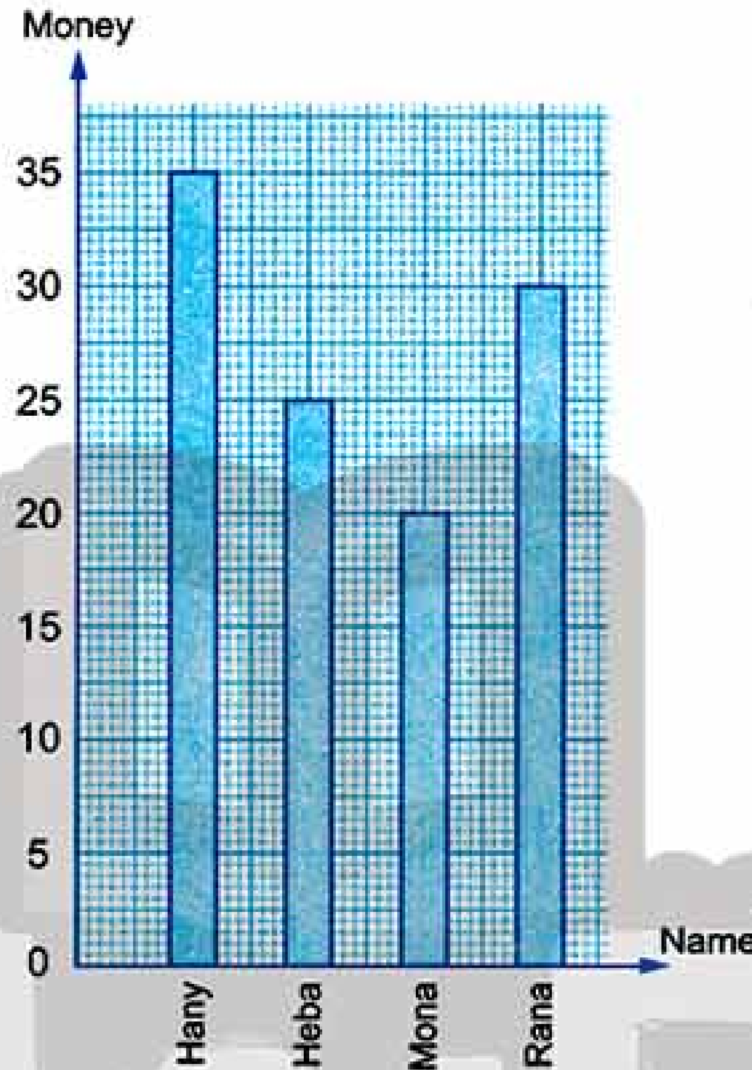
How many apples are there in each box ?

Number of apples in each box = ... ÷ .... = ... apples.



(3) Using the graph , complete the table :

Name	Hany	Heba	Mona	Rana
Money	....	....	....	....



11 El-Kalyoubia Governorate

Al-Obour Educational Directorate
Memphis Language School



Answer the following questions :

1 Choose the correct answer :

(1) A month = ... days. (7 or 24 or 30)

(2) $\frac{2}{9} + \frac{5}{9}$ = ... ($\frac{5}{14}$ or $\frac{7}{9}$ or $\frac{6}{1}$)

(3) 36 ÷ 6 ☐ 36 ÷ 3 (> or < or =)

(4) 6 hundreds = 2 hundreds + ... hundreds. (17 or 4 or 3)

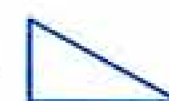
(5) Two sevenths = ... ($\frac{7}{2}$ or $\frac{2}{7}$ or 2)

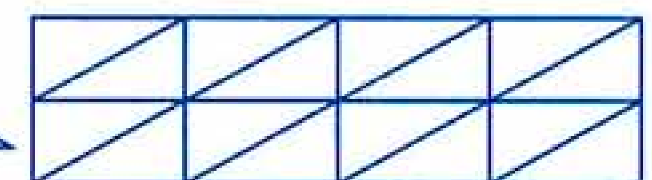
(6) The probability of getting a tail when tossing a coin once = ...

(zero or 1 or $\frac{1}{2}$)

(7) 9 × 5 = (3 × 5) + (............... × 5) (7 or 6 or 3)

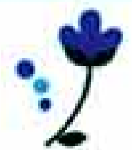
(8) The area of the opposite figure = ...





(8 or 16 or 24)





(9) .... is an even number. (427 or 756 or 81)

(10) An hour = ... minutes. (7 or 24 or 60)

(11) A square of side length 6 cm. , then its perimeter = ... cm.
(6 or 24 or 12)

(12) 7 metres = ... centimetres. (7 000 or 700 or 70)

(13) The probability of getting a number less than or equal 5 when a die is tossed once = ... ($\frac{1}{5}$ or $\frac{5}{6}$ or $\frac{1}{2}$)

2 Complete the following :

(14) 624 ÷ 2 = ...

(15) 3 , 30 , 300 , ... , ... (in the same pattern)

(16) 7 × 10 = ...

(17) $\frac{1}{3} = \frac{\dots\dots}{12}$

(18) The probability of the impossible event = ...

(19) 1 day and 4 hours = ... + ... = ... hours

3 Answer the following :

(20) **Arrange in an ascending order :**

$\frac{3}{8}$, $\frac{7}{8}$, $\frac{5}{8}$ and $\frac{6}{8}$

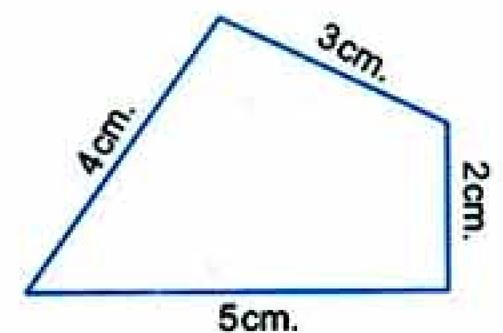
The ascending order is : .... , ... , ... and ....

(21) Marwan bought 4 cards , if the price of each one is 32 pounds.

How much money did he pay ?

The price of all cards = ... × .... = ... pounds.

(22) **Calculate the perimeter of the opposite figure :**



The perimeter = ...

= .... cm.

12 El-Sharkia Governorate

East Zagazig Directorate
Omar Al-Farouk Formal School



Answer the following questions :

1 Choose the correct answer :

(1) 135 × 10 = ... (1 035 or 1 350 or 3 150)

(2) Two days and one hour = ... hours. (48 or 47 or 49)

(3) $1 + \frac{3}{5}$ = ... ($\frac{4}{5}$ or $\frac{6}{5}$ or $\frac{8}{5}$)

(4) The probability to get a head when tossing a coin once = ... ($\frac{1}{2}$ or $\frac{3}{4}$ or $\frac{1}{5}$)

(5) The normal human body temperature = ... °C (73 or 30 or 37)

(6) $\frac{1}{4}$ < .... ($\frac{1}{7}$ or $\frac{1}{2}$ or $\frac{1}{5}$)

(7) 3 030 × 3 = ... (9 393 or 9 009 or 9 090)

(8) 5 kg. + 250 gm. = ... gm. (5 550 or 5 250 or 5 050)

(9) $\frac{2}{4}$ = ... ($\frac{1}{2}$ or $\frac{1}{8}$ or $\frac{1}{3}$)

(10) 30 tens + ... = 308 (3 or 5 or 8)

(11) 137 + 981 = 981 + ... (24 or 137 or 981)

(12) The only odd number of the following is .... (407 or 100 or 504)

(13) 603 ÷ 3 = ... (102 or 101 or 201)

2 Complete each of the following :

(1) 6 , 12 , 24 , ... "in the same pattern"

(2) 40 × .... = 400

(3) The probability of the impossible event = ...

(4) The temperature of boiling water = ... °C

(5) One hour and half hour = ... minutes.

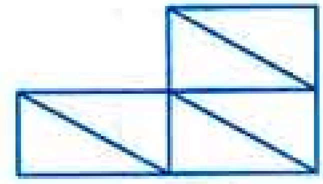
(6) The number that if divided by 6 the result will be 8 is ....

3 Marwan bought 3 metres of cloth to have a suit made.
How much money did he pay if the price of one metre was 89 pounds ?
The money he paid = ... = ... pounds.









4 [a] **Calculate the area of the opposite figure :**

The area = ...

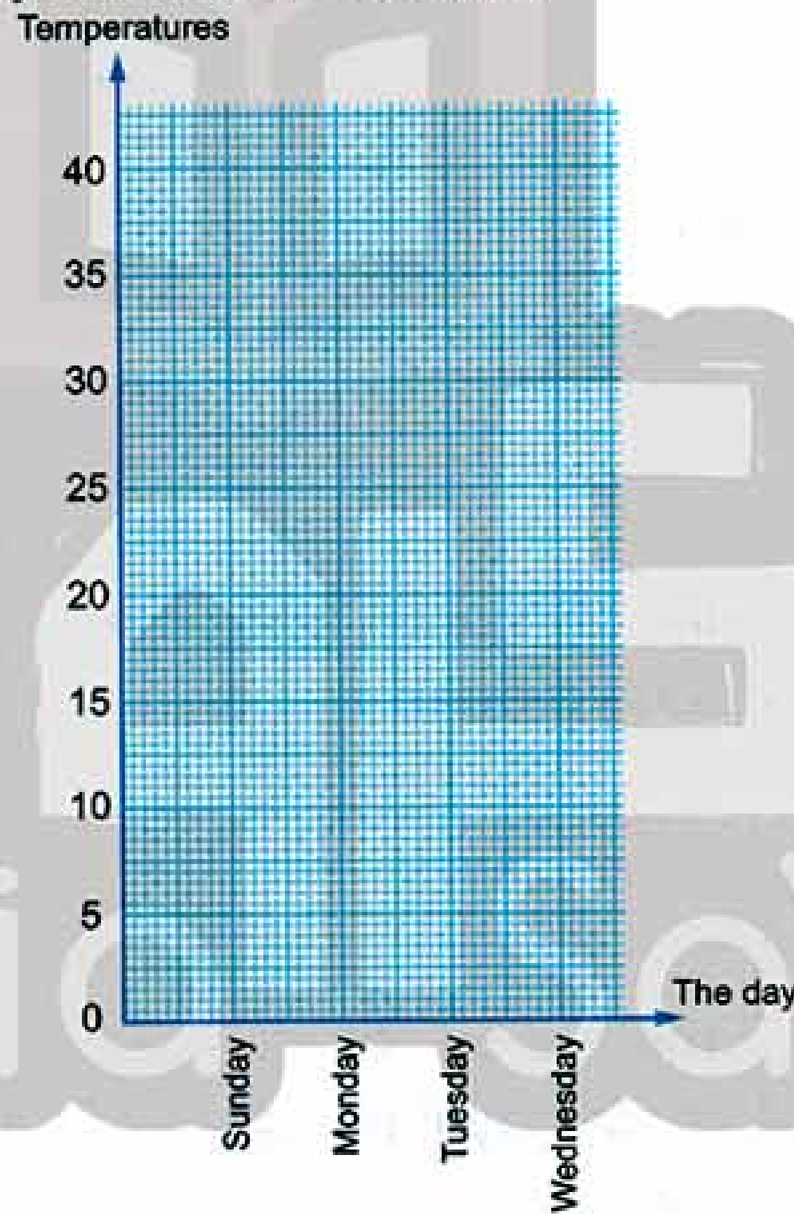


[b] What is the time ? ....

5 The following table shows the temperature of a city during 5 days :

The day	Sunday	Monday	Tuesday	Wednesday
Temperatures	25	30	20	25

Represent these data by a bar-lines graph.



13 El-Monofia Governorate

Quesna Educational Directorate
Mathematics Supervision



Answer the following questions :

1 Choose the correct answer :

(1) It is .... to rain gold. (certain *or* possible *or* impossible)

(2) 5 × 10 = ... (10 *or* 100 *or* 50)

(3) 136 × 100 = ... (360 *or* 13 600 *or* 136 000)

(4) It is .... the sun rises in the east. (certain *or* possible *or* impossible)



(5) 408 ÷ 2 = ... (120 or 200 or 204)

(6) 5 kilometres = ... metres. (30 or 5 000 or 400)

(7) 504 × 5 = ... (2 520 or 2 050 or 3 000)

(8) A suitable unit of the length of a pencil is ....(cm. or km. or m.)

(9) 3 hours = ... minutes. (100 or 180 or 200)

(10) The perimeter of the square whose side length is 5 cm. is .... cm. (20 or 25 or 30)

(11) The area of the figure ▭▭▭ = ... ▭ (4 or 6 or 3)

(12) 1 year = ... months. (10 or 12 or 50)

(13) $\frac{4}{6} + \frac{1}{6}$ = ... ($\frac{4}{6}$ or $\frac{7}{9}$ or $\frac{5}{6}$)

2 Complete :

(1) .... × 100 = 900

(2) The probability of the certain event = ...

(3) 53 × 4 = ...

(4) 624 ÷ 2 = ...

(5) As tossing a metallic coin once and observing the upper face then the probability of appearig a head = ...

(6) $\frac{2}{3} = \frac{\dots}{6}$

3 Answer the following :

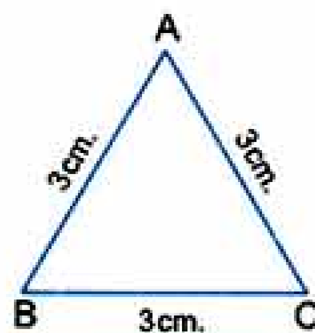
(1) Mustafa bought 3 metres of cloth to have a suit made.
How much did Mustafa pay if the price of one metre is 89 pounds ?
The price of the cloth = ... × .... = ... pounds.

(2) **Arrange the following fractions in an ascending order :**

$\frac{4}{6}$, $\frac{1}{6}$, $\frac{2}{6}$ and $\frac{3}{6}$

The order is : .... , ... , ... and ....

(3) **Calculate the perimeter of the following figure :**



The perimeter = ... + ... + ... = ... cm.



14 El-Gharbia Governorate

Al-Gharbia Educational Directorate
Maths Supervision

Answer the following questions :

1 Choose the correct answer :

(1) 624 ÷ 2 = ... (213 or 312 or 1 248)

(2) The perimeter of square whose side length is 5 cm. is .... cm. (16 or 12 or 20)

(3) 300 ☐ 400 – (100 × 2) (< or = or >)

(4) The probability of appearing an odd number on the upper face when tossing a die once is .... ($\frac{1}{6}$ or $\frac{1}{2}$ or $\frac{1}{3}$)

(5) 15 ☐ 1 000 = 15 000 (× or ÷ or +)

(6) The area of the shape [shape] is .... [triangle unit] (8 or 9 or 6)

(7) Two years and one month = ... months. (22 or 25 or 30)

2 Choose the correct answer :

(1) Which of the following numbers is an odd number ? (5 361 or 5 362 or 5 366)

(2) The perimeter of the triangle whose side lengths are 10 cm. , 8 cm. and 6 cm. is .... cm. (18 or 16 or 24)

(3) It is .... to rain gold. (possible or impossible or certain)

(4) The number that muliplied by 5 the result will be 255 is .... (61 or 51 or 31)

(5) The normal body temperature is .... °C (100 or 0 or 37)

(6) Ahmed wants to buy 135 notes , if the price of one note is 8 pounds , then the total money of what Ahmed pay requires .... (adding or multiplying or dividing)

3 Complete the following :



(1) 236 × 4 = ...

(2) $\frac{16}{24} = \frac{4}{\cdots}$

(3) One hour and half = ... minutes.

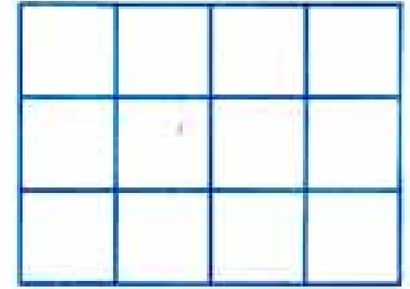


(4) The probability of getting a head when tossing a coin once is ....

(5) 500 × 90 = ...

(6) The probability of certain event is ....

4 Find the perimeter and the area of the opposite shape :



(1) Perimeter = ... units.

(2) Area = ... ☐

5 [a] Arrange the following fractions in an ascending order :

$1 \ , \ \frac{5}{8} \ , \ \frac{7}{8}$ and $\frac{3}{8}$

The order is : .... , ... , ... and ....

[b] Ahmed bought 4 jackets , if the price of each one is L.E. 375 , find what Ahmed paid.

What Ahmed paid = ... = L.E. ....

15 El-Dakahlia Governorate

Maths Supervison



Answer the following questions :

1 Complete each of the following :

(1) One year and quarter year = ... months.

(2) The probability of the certain event = ...

(3) 4 × 250 = ... × 500

(4) 8 109 ÷ 9 = ...

(5) Two sevenths + three sevenths = ...

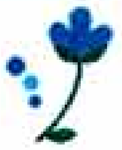
(6) The ascending order of the fractions $\frac{1}{8}$, $\frac{7}{8}$, $\frac{5}{8}$ and $\frac{3}{8}$ is .... , ... , ... and ....

2 Choose the correct answer :

(1) 600 × 90 = ... thousands. (5 400 *or* 54 000 *or* 54 *or* 540)

(2) .... is an even number. (555 *or* 530 *or* 221 *or* 663)

(3) $\frac{5}{8} = \frac{\dots\dots}{24}$ (13 *or* 14 *or* 10 *or* 15)



(4) $1 - \frac{4}{6} = \frac{1}{6} +$ .... ($\frac{1}{6}$ *or* $\frac{2}{6}$ *or* $\frac{6}{6}$ *or* 0)

(5) Five hundreds and sixty tens = ...

(110 *or* 11 000 *or* 1 100 *or* 11)

(6) A father wants to distribute 183 pounds among his three sone , then the share of each son = L.E. .... (61 *or* 16 *or* 26 *or* 62)

(7) The probability of the impossible event = ...

($\frac{1}{2}$ *or* $\frac{1}{3}$ *or* $\frac{3}{3}$ *or* $\frac{0}{3}$)

(8) The probability of getting a number is odd when a die is tossed once = ...

($\frac{1}{2}$ *or* $\frac{1}{3}$ *or* $\frac{1}{6}$ *or* 1)

(9) The perimeter of any polygon = The .... of its side lengths.

(quotient *or* difference *or* sum *or* product)

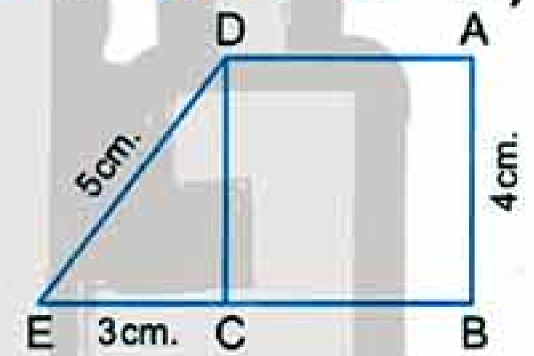
(10) The perimeter of a triangle whose side lengths are 4 cm. , 5 cm. and 7 cm. = ... cm. (17 *or* 14 *or* 15 *or* 16)

(11) A square of perimeter 4 cm. , then its side length = ... cm.

(8 *or* 1 *or* 4 *or* 2)

(12) In the opposite figure :

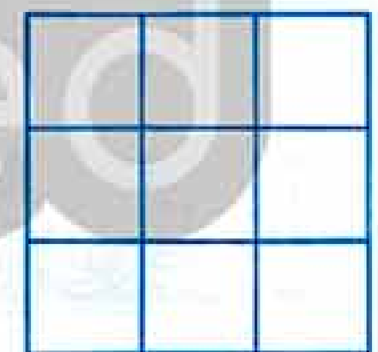
ABCD is a square , AB = 4 cm.
, DE = 5 cm. , CE = 3 cm.
, then the perimeter of the figure ABED = ... cm.



(22 *or* 20 *or* 24 *or* 16)

(13) From the opposite figure :

The area = ... □



(6 *or* 3 *or* 9 *or* 8)

3 Answer the following :

(1) A primary school has 7 classes with equal number in each , if the whole number of students is 287 students. How many students are there in each class ?

....

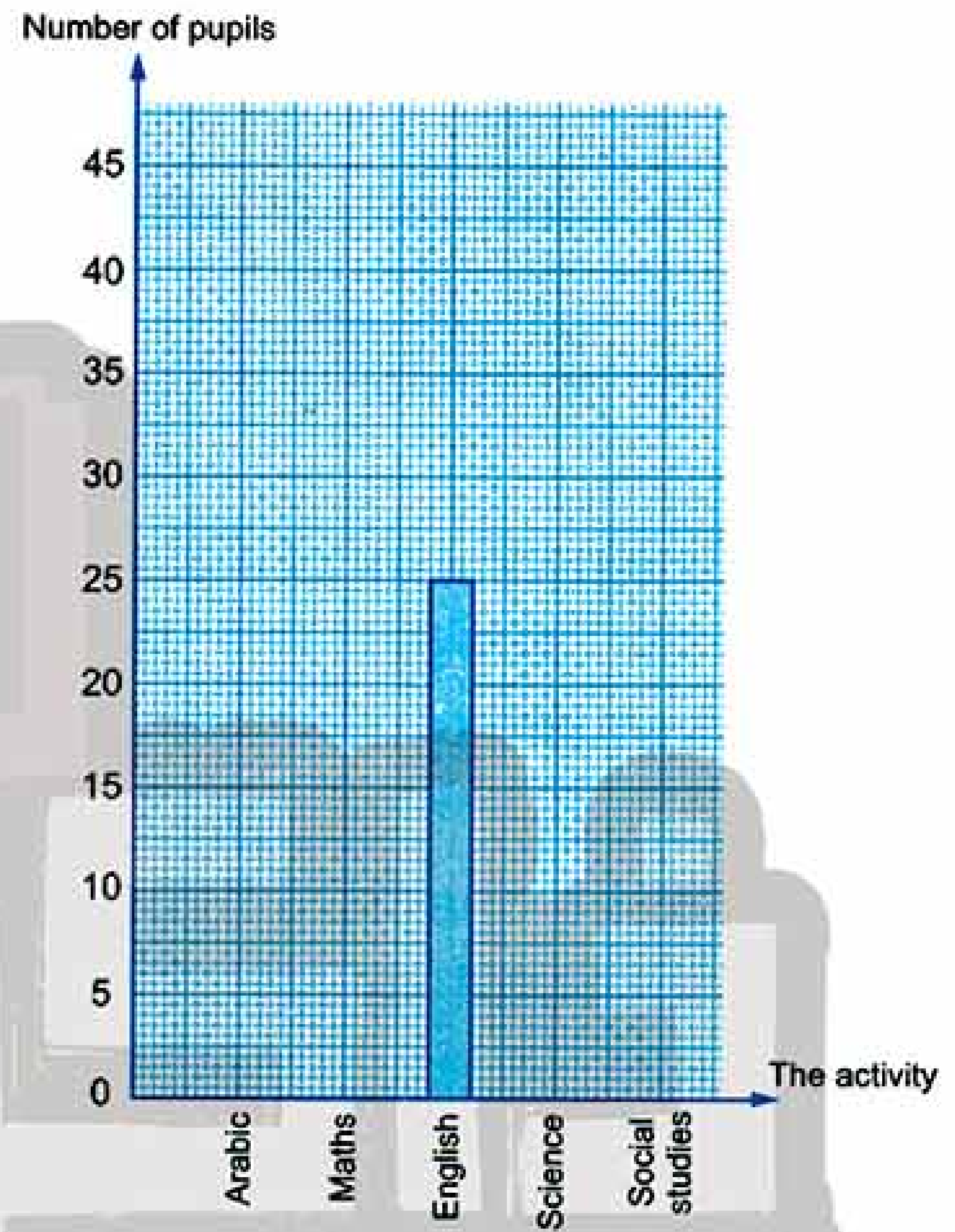
(2) The perimeter of a triangle is 24 cm. , the lengths of two sides are 7 cm. , 8 cm. Find the length of the third side.

....

(3) **If the number of the pupils who participated in school activity teams of the different subjects of 5^{th} grade primary in your school due to the general evaluation of the fundamental subjects as follows :**

Activity	Number of pupils
Arabic	30
Maths	45
English	.....
Science	20
Social studies	15

Complete the table, then represent these data by bar charts.



16 Port Said Governorate

Maths Inspector



Answer the following questions :

1 Complete the following :

(1) $\frac{1}{7} + \frac{2}{7} = \frac{\cdots\cdots}{7}$

(2) 6 kg. = ... gm.

(3) $\frac{16}{24} = \frac{4}{\cdots\cdots}$

(4) 4 , 40 , 400 , ... , ... (in the same pattern)

(5) The probability of the impossible event = ...



(6) If the temperature degrees for one city in five consecutive days is as follows :

Day	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.
Temperature degree	30°	29°	32°	39°	36°	31°

Then the hottest day is ....

2 Choose the correct answer :

(1) 5 tens = 5 × .... (10 *or* 100 *or* 1 000)

(2) A normal human's temperature is .... C (35° *or* 37° *or* 39°)

(3) The perimeter of a square whose side lengths is 5 cm. = ...
(20 cm. *or* 25 cm. *or* 50 cm.)

(4) .... is one of the units of measuring lengths.
(Metre *or* Thermometer *or* Kilogram)

(5) Which of these numbers is an odd number ? (247 *or* 250 *or* 354)

(6) One year = ... months. (12 *or* 30 *or* 24)

(7) The sun rises from east is a .... event.
(possible *or* impossible *or* certain)

(8) The time is ....
(quarter past 7 *or* 35 past three *or* seven)



(9) 6 metres = ... cm. (60 *or* 600 *or* 6 000)

(10) The perimeter of a triangle of side lengths 5 cm. , 5 cm. and 7 cm.
= .... cm. (5 *or* 7 *or* 17)

(11) 3 tens + ... = 33 (3 *or* 4 *or* 6)

(12) Five sixths = ... ($\frac{6}{5}$ *or* $\frac{5}{6}$ *or* $\frac{4}{5}$)

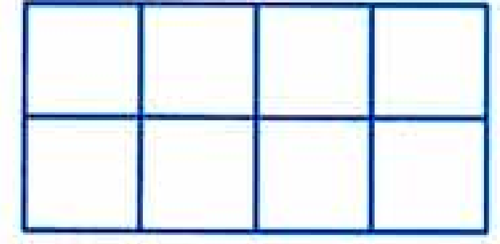
(13) As tossing a metallic coin once , then the probability of appearing a tail is .... (0 *or* $\frac{1}{2}$ *or* 1)

3 Answer the following :

(1) A man distributed 369 pounds among his 3 sons. Find the share of each one of them.
The share of each one of them = ... ÷ .... = ... pounds.



(2) In the opposite figure , find :



[a] The area of the figure = ... ☐

[b] The perimeter of the figure = ... units.

(3) Arrange in an ascending order :

Month , 24 days and 24 hours

The order is : .... , ... and ....

17 Damietta Governorate

Damietta Education Directorate
Official Language Schools



Answer the following questions :

1 Choose the correct answer :

(1) 6 × 10 = ... (6 or 60 or 600)

(2) Which of the following represents an odd number ?
(5 361 or 5 362 or 5 366)

(3) 4 × 3 × 1 000 ☐ 12 × 1 000 (< or = or >)

(4) The number of the even numbers included between 10 and 20 is ....
(2 or 4 or 6)

(5) The probability of the certain event is .... ($\frac{1}{2}$ or zero or 1)

(6) Four sixths ☐ $\frac{1}{6} + \frac{5}{6}$ (> or = or <)

(7) The area of the figure = ... ☐
(2 or 4 or 5)

(8) The normal human temperature .... C (73° or 37° or 31°)

(9) One day + 5 hours = ... hours. (24 or 26 or 29)

(10) 57 kg. = ... gm. (570 or 5 700 or 57 000)

(11) The probability of getting the number 8 when tossing a die once = ... ($\frac{1}{2}$ or 0 or 1)

(12) The suitable unit for measuring the length of the pencil is ....
(metre or centimetre or kilometre)



(13) The telling time of [clock] is ....

(quarter past seven *or* half past three *or* seven o'clock)

2 Complete the following :

(1) The perimeter of the square whose side length is 5 cm. is .... cm.

(2) $20 \times 30 = 10 \times$ ....

(3) 3 tens + ... = 33

(4) $20 \times$ .... = 2 000

(5) Four fifths = ...

(6) $635 \times 5 =$ ....

3 Answer the following :

(1) Samia and Mariam's father distributed among them 226 pounds equally.

What is the share of each one ?

The share of each one = ... = ... pounds.

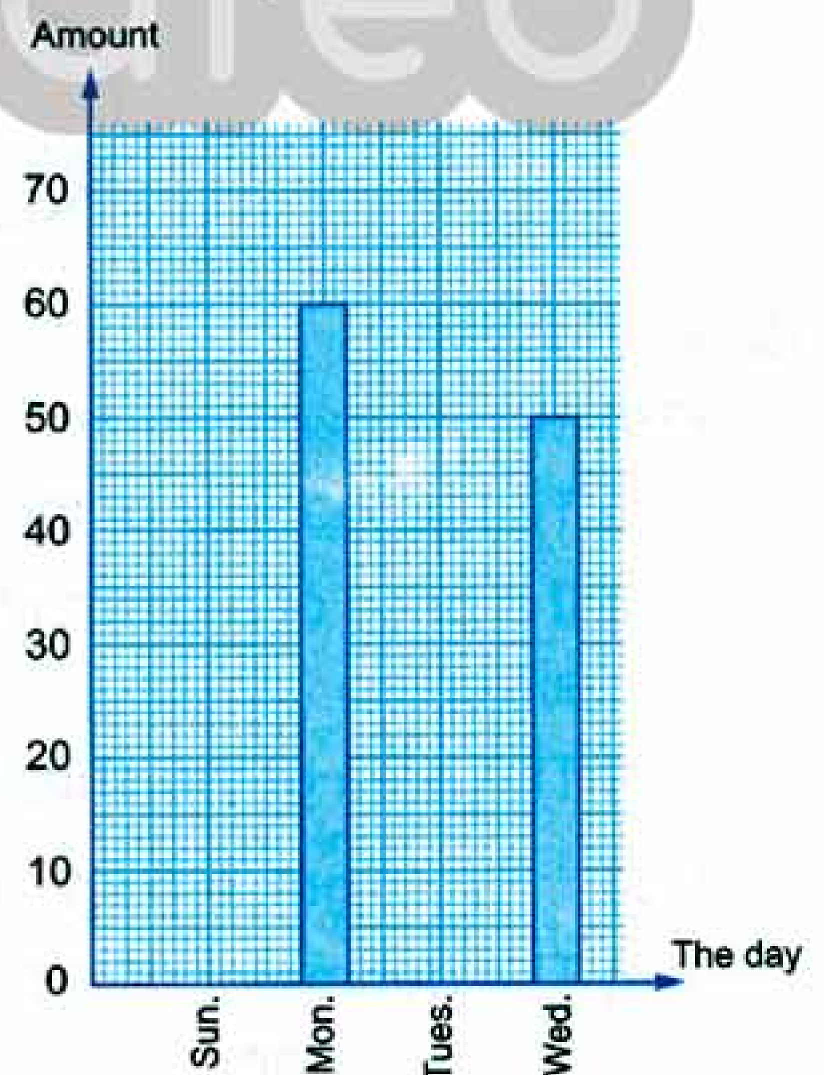
(2) Order the following fractions ascendingly :

$\frac{1}{2}$, $\frac{3}{10}$, $\frac{2}{10}$ and $\frac{9}{10}$

Ascending order is : .... , ... , ... and ....

(3) The following table and graph show the money saved by Ahmed during four days :

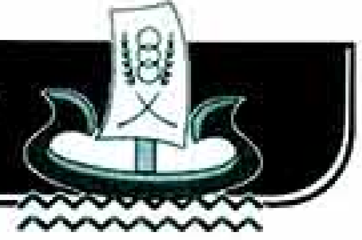
The day	Amount
Sunday	30
Monday	....
Tuesday	40
Wednesday	....



Complete the table and represent these data by a bar-lines graph.

18 Kafr El-Sheikh Governorate

Kafr El-Sheikh Educational Directorate
Maths Inspection Languge Schools



Answer the following questions :

1 Choose the correct answer :

(1) The number if multiplied by 451 the result will be 45 100 is .... (10 or 100 or 1 000)

(2) $\frac{3}{7} + \frac{4}{7} =$ .... $(1$ or $\frac{1}{7}$ or $\frac{7}{14})$

(3) The normal human temperature = ... °C (0 or 100 or 37)

(4) 700 ☐ 2 × 35 × 5 (> or = or <)

(5) .... is an odd number. (1 358 or 2 005 or 4 752)

(6) $\frac{25}{30} = \frac{\dots}{6}$ (4 or 5 or 6)

(7) 15 kilometres ☐ 1 500 metres. (> or = or <)

(8) The perimeter of a square = 24 cm. , then its side length = ... cm. (4 or 5 or 6)

(9) The fraction in the shaded part in [figure] is .... $(\frac{1}{4}$ or $\frac{2}{6}$ or $\frac{1}{8})$

(10) An hour and 25 minutes ☐ 145 minutes. (> or = or <)

(11) 62 ÷ 2 ☐ 155 ÷ 5 (< or = or >)

(12) As tossing a die once , the probability of getting an even number = ... $(\frac{2}{6}$ or $\frac{4}{6}$ or $\frac{1}{2})$

(13) The shown time [clock] is .... (8 : 55 or 9 : 55 or 11 : 45)

2 Complete :

(14) 10 × 6 × .... = 6 × 1 000

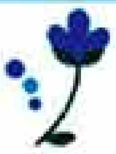
(15) The probability of the impossible event = ...

(16) If a price of a gram of silver is 9 pounds , then the price of 2 kg. of silver is ....

(17) The area of the shape [figure] = ... [triangle] = ... [square]

(18) .... gm. = 5 kg. and 70 gm.

(19) The perimeter of the rectangle of length 7 cm. and width 3 cm. = ... cm.



3 Answer the following :

(20) Find the result :

[a]
$$\begin{array}{r} 1\ 7\ 5\ 4 \\ \times \quad\quad 3 \\ \hline \ldots\ldots \end{array}$$

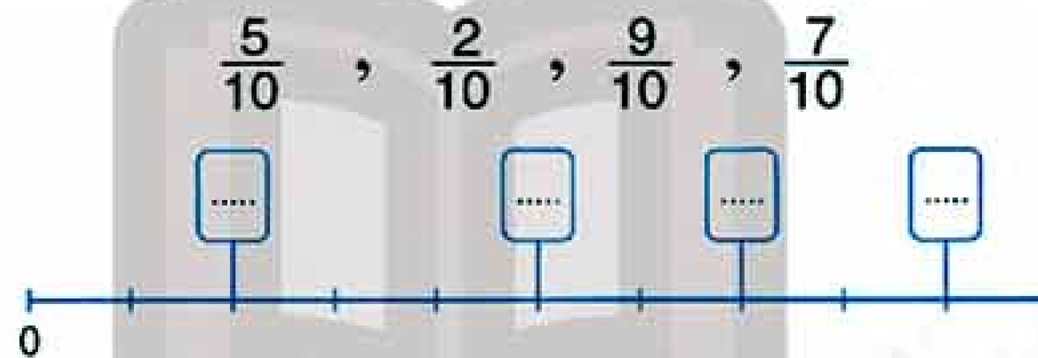
[b] $4 \overline{)1\ 608}$ ....

(21) A father wants to distribute L.E. 206 between his sons Mohamed and Ahmed. Find the share of each of them.

....

(22) Write the following fractions in the suitable place :

$\frac{5}{10}$, $\frac{2}{10}$, $\frac{9}{10}$, $\frac{7}{10}$



19 El-Beheira Governorate

Bandar Damanhor Educational Directorate
Amr Bn Aas Official Languge School



Answer the following questions :

1 Choose the correct answer :

(1) 75 m. = ... cm. (750 or 7 500 or 75 000)

(2) The number .... is an odd number. (22 or 20 or 19)

(3) Four sixths ☐ $\frac{5}{6} + \frac{1}{6}$ (< or = or >)

(4) The perimeter of the triangle whose side lengths are 5 cm. , 7 cm. and 10 cm. is .... cm. (22 or 35 or 45)

(5) It's .... that the fish live in water. (possible or impossible or certain)

(6) $\frac{15}{25} = \frac{\ldots}{5}$ (3 or 5 or 15)

(7) The perimeter of the polygon (2cm., 3cm., 3cm., 5cm.) = ... cm. (13 or 16 or 24)

(8) The probability of getting an even number when tossing a die once is .... (0 or 1 or $\frac{1}{2}$)

(9) The normal human temperature is .... °C (73 or 100 or 37)



(10) The perimeter of the rectangle whose length is 5 cm. and its width is 3 cm. = ... cm. (8 or 15 or 16)

(11) The number if multiplied by 213 the result will be 21 300 is .... (1 or 10 or 100)

(12) The perimeter of the square whose side length is 5 cm. = ... cm. (10 or 20 or 25)

(13) 5 tens + ... = 51 (100 or 10 or 1)

2 Complete each of the following :

(14) 8 kilograms and 375 grams = ... grams.

(15) The probability of an impossible event is ....

(16) 2 days and 2 hours = ... hours

(17) 1 860 ÷ 3 = ...

(18) The probability of getting a tail when tossing a coin once is ....

(19) $1 - \frac{5}{7} =$ ....

3 Answer the following :

(20) **Arrange the following fractions ascendingly :**

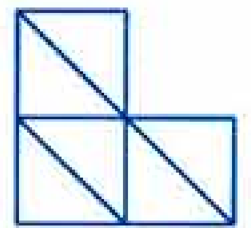
$\frac{7}{8}$, 1 , $\frac{1}{8}$ and $\frac{4}{8}$

The order is : .... , ... , ... and ....

(21) Salwa bought 6 bags , the price of each one is 175 pounds. How much money did she pay ?

She paid = ... × .... = ... pounds.

(22) **Calculate the area and the perimeter of the opposite figure :**

[a] The area = ... 

[b] The perimeter = ... units.



20 El-Fayoum Governorate

West Educational Administration
Mathematics Supervision

Answer the following questions :

1 Choose the correct answer :

(1) $1 - \frac{4}{6} = \frac{1}{6} +$ .... ($\frac{1}{6}$ or $\frac{2}{6}$ or $\frac{4}{6}$)

(2) A box contains 10 balls , 5 balls of them are white and the left are red if a ball is drawn blindly , the probability of this ball is a red = ...
($\frac{1}{4}$ or $\frac{1}{3}$ or $\frac{1}{2}$)

(3) Area of the figure [figure] = ... [figure]
(6 or 8 or 12)

(4) 3 Hundreds ☐ 4 Hundreds – (10 × 20) (> or = or <)

(5) Appearing a tail as throwing a fair metallic coin once is .... event.
(possible or impossible or certain)

(6) Four sixths ☐ $\frac{1}{6}$ + $\frac{5}{6}$ (> or = or <)

(7) The side length of a square with perimeter 20 cm. = ... cm.
(5 or 8 or 10)

(8) The number which if multiplied by 213 the result equal 21 300 is ....
(10 or 100 or 1 000)

(9) Select from the following numbers which represents an odd number.
(6 tens + 6 or 125 × 5 or 306 ÷ 3)

(10) The perimeter of the opposite figure = ... length units. [figure]
(7 or 9 or 10)

(11) Number of even numbers located between 20 and 40 is ....
(2 or 6 or 9)

(12) The side lengths of a triangle are 5 cm. , 5 cm. and 7 cm. , then its perimeter = ... cm. (17 or 12 or 21)

(13) The normal human temperature is .... °C (73 or 36 or 37)

2 Complete each of the following :

(14) Two sevenths + three sevenths = ...

(15) When tossing a die once the probability of appearing an odd number = ...

(16) 5 kilograms 275 grams = ... grams.

(17) The opposite time is .... [clock]

(18) The number which if divided by 6 the result equal 13 is ....

(19) The sun rises from east is a .... event



3 **Answer the following :**

(20) Arrange in an ascending order :

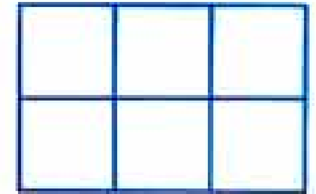
(2 days and 2 hours) , 48 hours and 5 days

The order is : .... , ... and ....

(21) A man distributed 963 pounds among his 3 sons equally. What is the share of each one ?

The share of each one = ...

(22) From the opposite figure , find :



[a] The perimeter = ... length units

[b] The area = ... □

21 Beni Suef Governorate

Directorate of Education
Directorate of Official Lang. Schools



Answer the following questions :

1 **Choose the correct answer :**

(1) 1 010 ÷ 2 = ... (55 or 505 or 5 005)

(2) 10 metres = ... centimetres. (10 or 100 or 1 000)

(3) .... ÷ 5 = 21 (105 or 150 or 100)

(4) 60 × 50 = ... (300 or 3 000 or 30 000)

(5) One year and two months = ... months. (14 or 24 or 25)

(6) The probability of impossible event = ... (2 or 0 or 1)

(7) The perimeter of the figure ⊞ = ... units (4 or 6 or 8)

(8) The sun rises from west is a .... event.
(certain or possible or impossible)

(9) The perimeter of the square whose side length is 5 cm. = ... cm.
(12 or 20 or 16)

(10) Four sixths □ $\frac{1}{6} + \frac{5}{6}$ (> or = or <)

(11) Which of these numbers is an even ? (131 or 258 or 249)

(12) $\frac{3}{5} = \frac{\cdots}{20}$ (12 or 15 or 18)

(13) The normal human's temperature = ... C (30° or 73° or 37°)



2 Complete each of the following :

(1) As tossing a metallic coin once , then the probability of appearing a head is ....

(2) $\frac{5}{9} + \frac{4}{9} =$ .... = ...

(3) The even number that comes just after 19 is ....

(4) 2 000 grams = ... kilograms.

(5) Triangle of side lengths 5 cm. , 5 cm. , 7 cm. , then its perimeter = ... cm.

(6) 2 415 × 4 = ...

3 Answer the questions :

(1) **Arrange in an ascending order :**

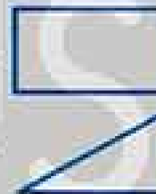
$\frac{2}{7}$, 1 , $\frac{6}{7}$ and $\frac{4}{7}$

The order is : .... , ... , ... and ....

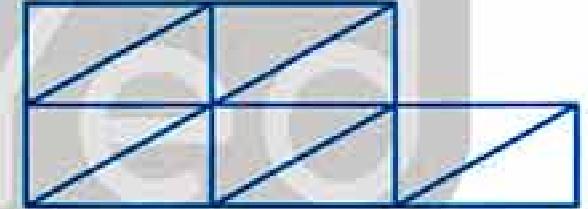
(2) Salwa bought 6 bags , the price of each one is 175 pounds. How much money did she pay ?

She paid = ... × .... = ... pounds.

(3) **In the opposite figure , complete :**

[a] The area of the figure = ... 

[b] The area of the figure = ...





22 El-Menia Governorate

El-Menia Official Language School
Maths Department

Answer the following questions :

1 Choose the correct answer :

(1) 7 × 100 = ... (7 100 or 700 or 70 or 600)

(2) 5 kg. = ... gm. (5 000 or 500 or 50 or 5)

(3) 8 004 ÷ 2 = ... (4 004 or 8 002 or 4 002 or 2 002)

(4) Five sixths = ... ($\frac{5}{6}$ or 56 or $\frac{6}{5}$ or 65)

(5) Two days = ... hours (24 or 20 or 14 or 48)



(6) .... is an even number. (22 or 7 or 43 or 221)

(7) The probability of impossible event = ... (2 or zero or 1 or $\frac{1}{2}$)

(8) 115 × 5 = ... (665 or 755 or 675 or 575)

(9) 3 weeks = ... days. (7 or 21 or 14 or 24)

(10) The normal temperature of a human body is C

(40° or 30° or 37° or 20°)

(11) The unit of measuring time is ....

(kilogram or metre or hour or degree)

(12) The area of the figure = ... □

(10 or 5 or 4 or 6)

(13) 12 m. = ... cm. (120 or 1 200 or 12 000 or 12)

2 Complete :

(14) The probability of certain event = ...

(15) $\frac{5}{7} + \frac{2}{7}$ = ...

(16) The perimeter of the figure (3cm. × 2cm.) = ... cm.

(17) 8 × 1 000 = ...

(18) $1 - \frac{2}{9}$ = ...

(19) The time in the opposite clock is ....

3 Answer the following :

(20) Arrange the following fractions in a descending order :

$\frac{5}{8}$, $\frac{1}{8}$, $\frac{7}{8}$ and $\frac{3}{8}$

The order is : .... , ... , ... and ....

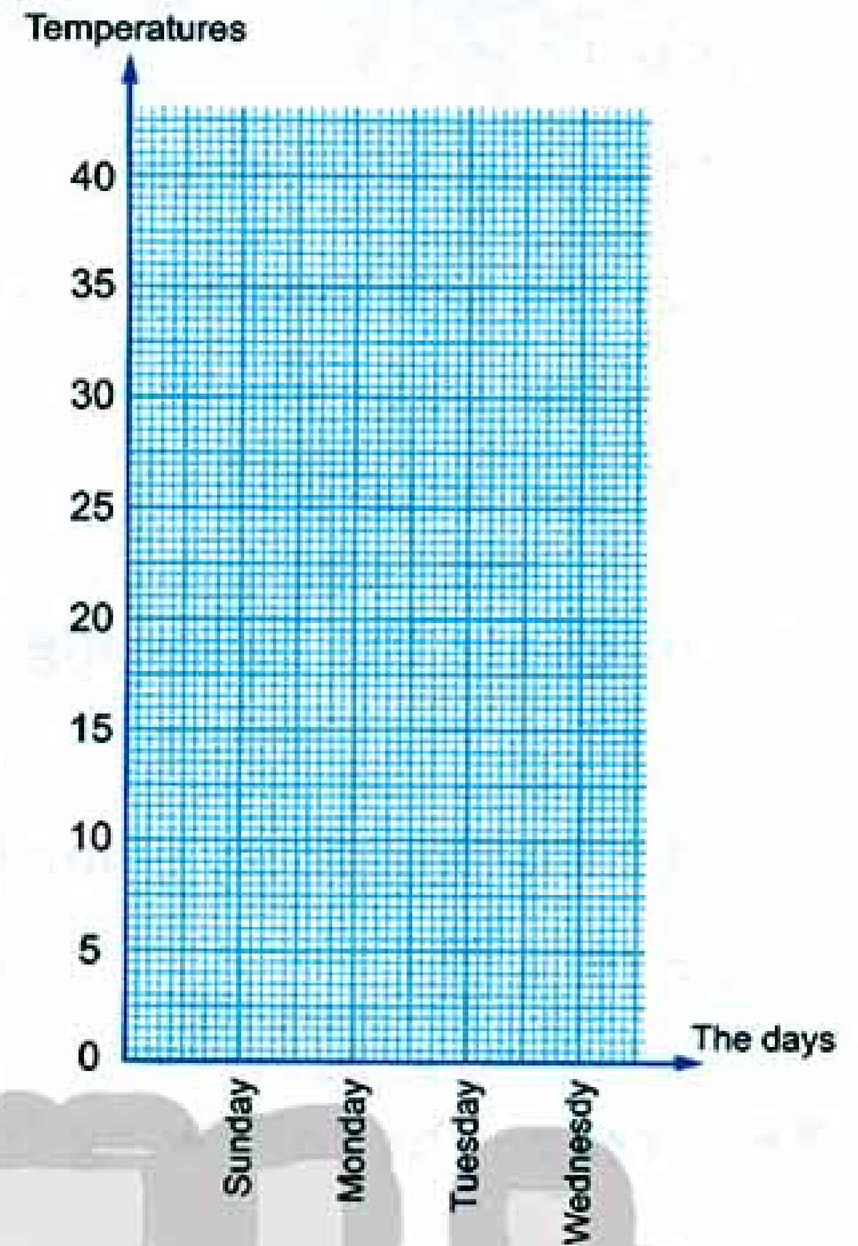
(21) A father distributed 226 pounds equally among his 2 sons. What is the share of each one ?

The share of each one = ... ÷ .... = ... pounds.

(22) **The following table shows highest temperatures during four days in a city :**

Days	Temperature
Sunday	25
Monday	15
Tuesday	30
Wednesday	20

Represent these data by a broken line graph.



23 Souhag Governorate

Maths Inspection



Answer the following questions :

1 Choose the correct answer :

(1) $\frac{3}{7} + \frac{2}{7} =$ .... ($\frac{2}{7}$ or $\frac{5}{7}$ or $\frac{7}{7}$)

(2) Five sixths ☐ $\frac{6}{6}$ (> or < or =)

(3) One day = ... hours. (23 or 24 or 25)

(4) A normal human's temperature is .... C (35° or 37° or 39°)

(5) The perimeter of a triangle whose side lengths are 8 cm. , 6 cm. and 10 cm. = ... cm. (16 or 18 or 24)

(6) The perimeter of a square of side length 4 cm. is .... cm. (16 or 20 or 25)

(7) The perimeter of the shape [figure] = ... length units. (4 or 5 or 10)

(8) The area of the figure [figure] is .... ☐ (5 or 6 or 10)

(9) $\frac{4}{5}$ ☐ $\frac{3}{5}$ (< or > or =)

(10) 8 080 ÷ 8 = ... (1 010 or 110 or 101)

(11) $1 - \frac{3}{4}$ = ... ($\frac{3}{4}$ or $\frac{1}{4}$ or $\frac{2}{4}$)

(12) The side length of a square its perimeter is 20 cm. = ... cm.
(5 or 80 or 10)

(13) 136 × 100 = ... (360 or 13 600 or 1 360)

2 Complete the following :

(1) $\frac{3}{5} - \frac{1}{5}$ = ...

(2) 963 ÷ 3 = ...

(3) The probability of the certain event = ...

(4) 1 kg. = ... gm.

(5) $\frac{1}{2} = \frac{6}{\dots}$

(6) 7 × 10 = ...

3 Arrange the following fractions descendingly :

$\frac{1}{10}$, $\frac{3}{10}$, $\frac{2}{10}$ and $\frac{9}{10}$

The descending order is : .... , ... , ... and ....

4 Salwa bought 6 bags, the price of each one is L.E. 175

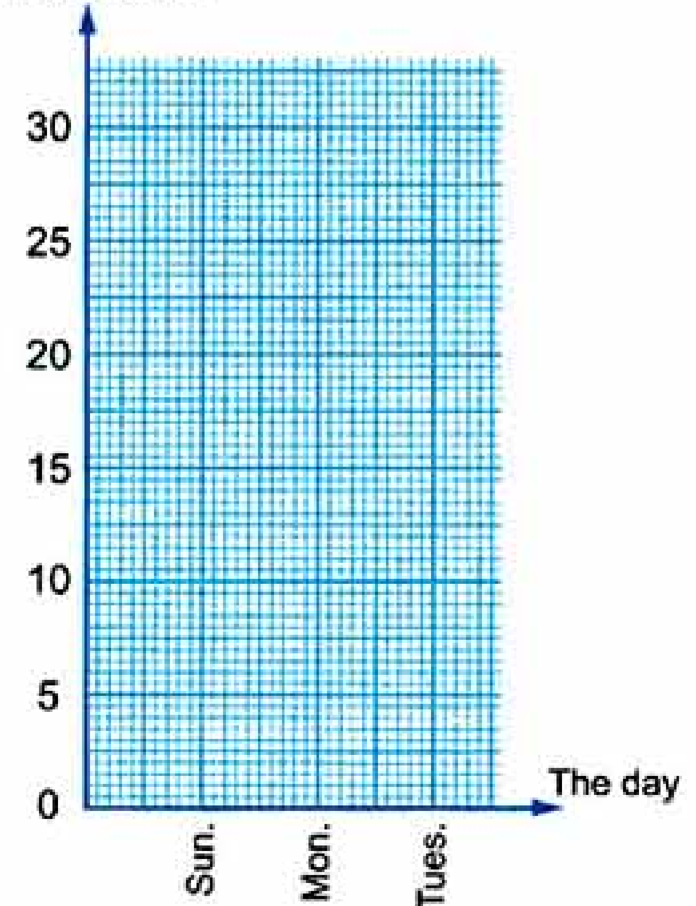
How much money did she pay ?

She paid = ... × .... = L.E. ....

5 The following table shows the temperature degrees for 3 days :

Days	Sun.	Mon.	Tues.
Temperature degrees	25	20	30

Represent these data by a broken line graph.







24 Qena Governorate

Qena Directorate of Education
Math's Supervision



Answer the following questions :

1 Choose the correct answer :

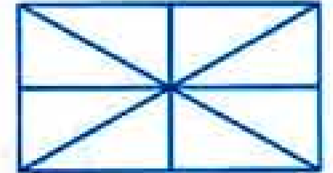
(1) 5 tens = 5 × .... (10 or 100 or 1 000)

(2) 20 × .... = 4 000 (200 or 20 or 2)

(3) $\frac{3}{7}$ ☐ 1 (> or = or <)

(4) The area of the opposite figure = ...





(4 or 6 or 8)

(5) 3 hundreds ☐ 4 hundreds (< or = or >)

(6) 18 × 100 = ... (180 or 18 or 1 800)

(7) The normal human body temperature is .... °C (36 or 37 or 38)

(8) It is .... to rain gold. (certain or possible or impossible)

(9) 200 ÷ 4 = ... (20 or 40 or 50)

(10) 3 m. = ... cm. (3 or 30 or 300)

(11) The probability of the impossible event = ... (0 or 1 or $\frac{1}{2}$)

(12) 7 000 gm. = ... kg. (7 or 70 or 700)

(13) 206 × 3 = ... (618 or 648 or 718)

(14) The perimeter of the rectangle = (length + width) × .... (1 or 2 or 3)

(15) 1 505 ÷ 5 = ... (101 or 31 or 301)

(16) The perimeter of square whose side length is 4 cm. = ... cm. (10 or 12 or 16)

(17) 2 hours = ... minutes. (50 or 100 or 120)

(18) The odd number of the following is .... (131 or 646 or 194)

(19) $\frac{4}{7}$ ☐ $\frac{3}{7}$ (> or = or <)

(20) Two fifths = ... ($\frac{1}{5}$ or $\frac{2}{5}$ or $\frac{5}{7}$)

2 Complete :

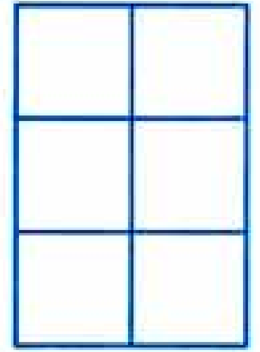
(21) 125 × 5 = ...

(22) The smallest odd number = ...

(23) It is .... that the sun rises from the east.

(24) One day and 2 hours = ... hours.

(25) The area of the opposite figure = ... □



(26) $\frac{3}{9} = \frac{12}{......}$

(27) $\frac{3}{7}$ is read as ....

(28) $2 \times 5 \times 456 =$ ....

(29) 26 km. = ... m.

3 Answer the following :

(30) Arrange ascendingly :

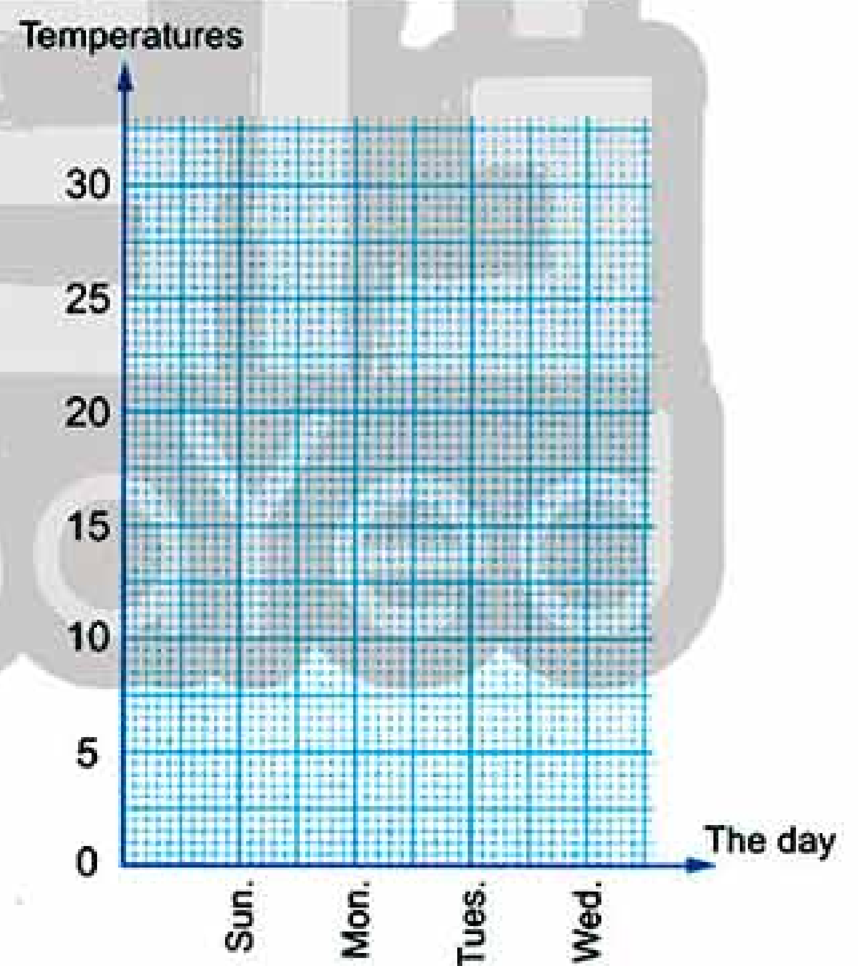
$\frac{1}{9}$, $\frac{7}{9}$, $\frac{5}{9}$ and $\frac{8}{9}$

The ascending order is : .... , ... , ... and ....

(31) The following table shows the highest temperatures during four days in a city :

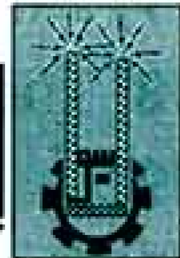
The day	Sunday	Monday	Tuesday	Wednesday
Temperatures	25	30	20	25

Represent these data by a broken line.



25 Aswan Governorate

Aswan Educational Directorate
M. M. Yacoub Language School



Answer the following questions :

1 Choose the correct answer :

(1) 5 tens = 5 × .... (10 *or* 100 *or* 1 000)

(2) Four sevenths = ... ($\frac{1}{7}$ *or* $\frac{4}{7}$ *or* $\frac{2}{7}$)



(3) $\frac{2}{3} = \frac{\dots}{6}$ (2 or 3 or 4)

(4) 1 km. = ... m. (1 000 or 100 or 10)

(5) The perimeter of square whose side length is 5 cm. = ... cm. (10 or 15 or 20)

(6) 3 kg. = ... gm. (3 000 or 300 or 30)

(7) $\frac{2}{8} + \frac{3}{8}$ = ... ($\frac{5}{8}$ or $\frac{7}{8}$ or $\frac{6}{8}$)

(8) The number .... is an even. (3 or 6 or 7)

(9) $\frac{3}{4}$ ☐ $\frac{1}{4}$ (< or > or =)

(10) The probability of impossible event = ... (0 or $\frac{1}{2}$ or 1)

(11) 1 day = ... hours (24 or 12 or 10)

(12) The area of the following figure [figure] = ... ☐ (4 or 6 or 8)

(13) The probability of getting a head when tossing a coin once = ... (0 or $\frac{1}{2}$ or 1)

2 Complete :

(1) 234 × 2 = ...

(2) 4 hundreds = ...

(3) $\frac{4}{9} - \frac{2}{9} = \frac{\dots}{\dots}$

(4) 624 ÷ 2 = ...

(5) The probability of getting a tail when tossing a coin once = ...

(6) The probability of the certain event = ...

3 Answer the following :

(1) Ahmed bought 6 bags, the price of each one is 175 pounds, how much money did he pay ?

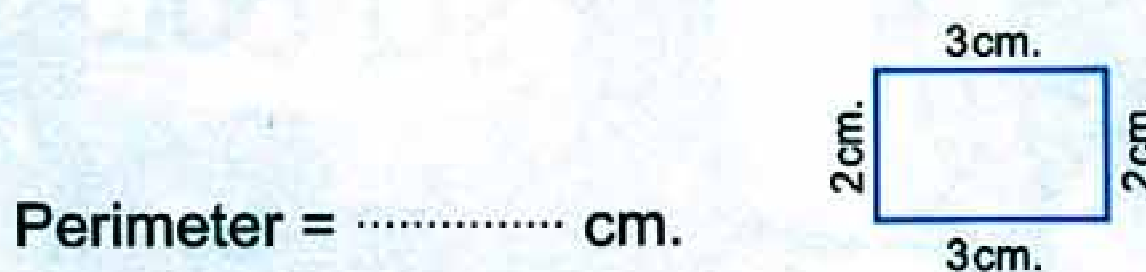
Ahmed paid = ... × .... = ... pounds.

(2) **Arrange the following fractions in an ascending order :**

$\frac{1}{8}$, $\frac{7}{8}$, $\frac{5}{8}$ and $\frac{3}{8}$

Ascending order is : .... , ... , ... and ....

(3) Find the perimeter of the following figure :



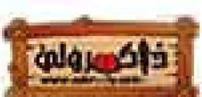
Perimeter = ... cm.

Final Examinations
2018



★ 25 schools' examinations from different governorates.



Some Schools' Examinations from Different Governorates

1 Cairo Governorate

Helopolis Educational Zone
Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) The smallest odd number is .... (0 or 1 or 2 or 3)

(2) 3 690 ÷ 9 = ... (610 or 510 or 410 or 310)

(3) $\frac{2}{7} + \frac{3}{7} = \frac{\cdots\cdots}{\cdots\cdots}$ ($\frac{2}{7}$ or $\frac{3}{7}$ or $\frac{4}{7}$ or $\frac{5}{7}$)

(4) 642 × 4 < 642 × .... (2 or 3 or 4 or 5)

(5) ✱ 15 × 10 = ... (15 or 150 or 50 or 100)

(6) The week = ... days. (4 or 5 or 6 or 7)

(7) If we flip a coin once , then the probability of getting a head = ...

(0 or $\frac{1}{4}$ or $\frac{1}{2}$ or 1)

(8) The area of the shape [shape] = ... [triangle]

(3 or 5 or 6 or 7)

(9) The normal human body temperature is .... °C

(35 or 36 or 37 or 38)

2 Complete the following :

(10) A bag contains 3 red balls and 7 black balls , if a ball is drawn at random , then the probability of the drawn ball is red = $\frac{\cdots\cdots}{\cdots\cdots}$

(11) $\frac{2}{3} = \frac{\cdots\cdots}{9}$

(12) 3 , 6 , 12 , ... (in the same pattern)

(13) 2⟌8 422 (quotient: ....)

(14)
```
   2 0 7
×      8
--------
.........
```




(15) $1 - \frac{1}{4} =$ ....

(16) The following temperatures recorded in one city during 6 days as follows :

Day	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday
Temperatures	30°	29°	32°	39°	36°	31°

Then the day has the highest temperature is ....

3 ***Choose the correct answer :***

(17) $\frac{1}{6} >$ .... ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{5}$ or $\frac{1}{7}$)

(18) $(7 \times 7) \div 7 =$ .... (1 or 7 or 14 or 49)

(19) $45 \div$ .... $= 9$ (3 or 4 or 5 or 6)

(20) 9 000 gm. = ... kg. (9 or 90 or 900 or 9 000)

(21) The probability of the appearance of the number 5 when throwing a fair die once = ... ($\frac{1}{6}$ or $\frac{2}{6}$ or $\frac{3}{6}$ or $\frac{5}{6}$)

(22) ❋ .... × 100 = 2 400 (2 or 4 or 24 or 240)

(23) The probability of the impossible event = ...

(0 or $\frac{1}{2}$ or $\frac{1}{3}$ or 1)

(24) The triangle of side lengths are 3 cm. , 4 cm. and 5 cm. , then its perimeter = ... cm. (60 or 12 or 9 or 7)

(25) The number that multiplied by 5 the result will be 255 is ....

(5 or 15 or 21 or 51)

(26) The time on the opposite watch is ....



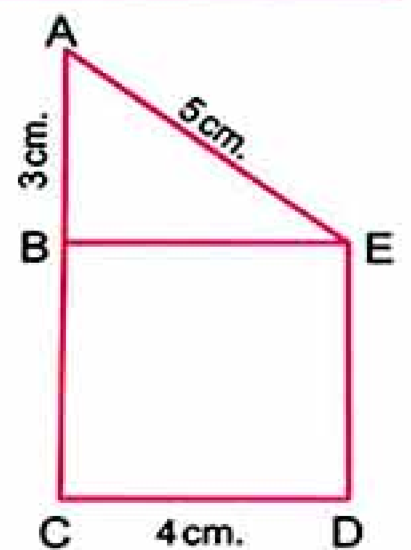
(10 o'clock or quarter to 10 or 9 o'clock or quarter past 10)

4 ***In the opposite figure :***

BEDC is a square its side length is 4 cm. , AB = 3 cm. and AE = 5 cm. , then complete :

[a] The perimeter of square BEDC = ... cm.

[b] The perimeter of the figure AEDC = ... cm.



5 A man distributed 690 pounds equally among his 3 children. What the share of a child ?

The share of each one = ... ÷ .... = ... pounds.

2 Cairo Governorate

East of Nasr City Educational Zone
Dr. Nermine Ismail Schools



Answer the following questions :

1 *Choose the correct answer :*

(1) One year and 3 months = ... months. (20 or 40 or 15)

(2) 1 899 ÷ 9 = ... (911 or 211 or 119)

(3) 2 hours = ... minutes. (60 or 100 or 120)

(4) The human body temperature is measured by ....
(metre or hours or thermometer)

(5) The probability of impossible event = ... (1 or 0 or 100)

(6) The number .... is an even number. (204 or 531 or 97)

(7) 3 weeks = ... days. (7 or 14 or 21)

(8) $\frac{2}{7}$ + ... = $\frac{6}{7}$ ($\frac{8}{14}$ or $\frac{4}{7}$ or 4)

(9) 8 metres = ... centimetres. (80 or 800 or 8 000)

(10) 1 day .... 40 hours. (> or < or =)

(11) The area of this figure = ... (unit: triangle)
(10 or 5 or 12)

(12) ✱ 43 × 1 000 = ... (430 or 4 300 or 43 000)

(13) 36 ÷ 3 .... 6 × 2 (> or < or =)

(14) At tossing a coin once , the probability of appearing a head = ...
(0 or $\frac{1}{2}$ or 1)

(15) Two thirds = ... ($\frac{2}{3}$ or 23 or $\frac{3}{2}$)

(16) If the side length of a square is 5 cm. , then its perimeter = ... cm.
(16 or 32 or 20)

(17) $\frac{4}{6}$ .... $\frac{5}{6}$ (< or > or =)

(18) The unit used to measure the weight of a rabbit is ....

(hour **or** metre **or** kilogram)

(19) It is .... that the fish live in water.

(certain **or** impossible **or** possible)

(20) The time shown in the opposite clock is ....



(three o'clock **or** half past seven **or** two o'clock)

(21) The smallest odd number is .... (0 **or** 1 **or** 8)

(22) .... ÷ 3 = 11 (80 **or** 44 **or** 33)

(23) The last month in the A.D. calendar is ....

(January **or** October **or** December)

(24) ✻ 54 × .... = 540 (10 **or** 100 **or** 1 000)

(25) The month that has 28 days is ....

(February **or** January **or** August)

---

2 ***Complete :***

(1) $1 - \frac{5}{9} =$ ....

(2) 1 067 × 8 = ...

(3) The fraction which represents the coloured part is ....

(4) 3 , 6 , 9 , ... , ... (in the same pattern)

(5) 848 ÷ 4 = ...

(6) The odd number just after 13 is ....

(7) $\frac{1}{2} = \frac{\cdots}{4}$

(8) 5 kilograms + 720 grams = ... grams.

(9) Half an hour = ... minutes.

(10) 9 × .... = 72

3 [a] ***Arrange in an ascending order :***

$\frac{6}{9}$, 1 , $\frac{2}{9}$ and $\frac{5}{9}$

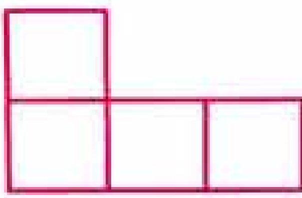
The order is : .... , ... , ... and ....

[b] A man distributed L.E. 3 200 among his 4 sons. What's the share of each son ?

The share of each son = ... ÷ .... = L.E. ....

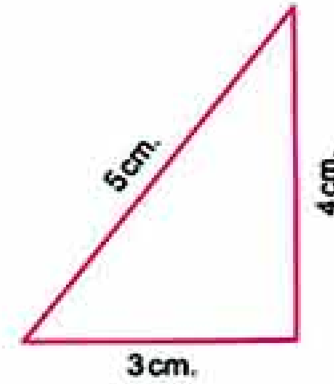
4 [a] ***Find the perimeter of the following figures :***

(1)



The perimeter = ... units.

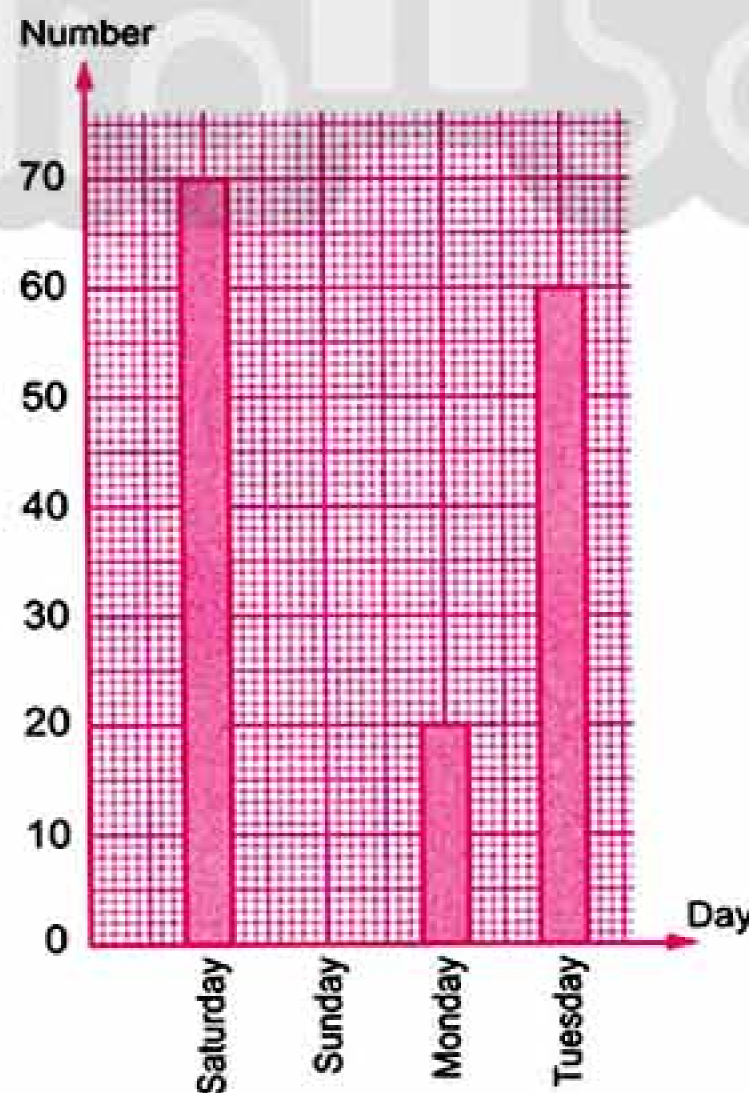
(2)



The perimeter = ... cm.

[b] ***The following table shows the number of visitors to the zoo in 4 days , complete the table and the graph :***

Day	Saturday	Sunday	Monday	Tuesday
Number	....	40	....	....



3 Cairo Governorate

El-Sayda Zainab Educational Zone
Maths Inspection



Answer the following questions :

1 Choose the correct answer :

(1) Five sixths = ... ($\frac{6}{5}$ or $\frac{5}{6}$ or 56)

(2) The number .... is an even number. (340 or 311 or 245)

(3) 1 .... $\frac{7}{9}$ (> or < or =)

(4) The perimeter of the square = the side length × .... (5 or 3 or 4)

(5) $\frac{3}{7} + \frac{4}{7}$ = ... (1 or $\frac{4}{7}$ or $\frac{5}{7}$)

(6) ✱ 78 × 1 000 = ... (78 000 or 7 800 or 780)

(7) The area of the opposite figure is .... □ (2 or 5 or 4)

(8) The day = ... hours. (10 or 12 or 24)

(9) 9 300 ÷ 3 = ... (310 or 31 or 3 100)

(10) The temperature of the normal human = ...°C (35 or 36 or 37)

(11) It is .... to rain gold. (certain or possible or impossible)

(12) $\frac{15}{20} = \frac{3}{\dots\dots}$ (3 or 4 or 5)

(13) 66 m. = ... cm. (66 or 660 or 6 600)

(14) 403 × 3 = ... (600 or 1 209 or 620)

2 Complete :

(15) The probability of impossible event = ...

(16) ✱ 10 × .... = 60 + 20

(17) Half of an hour = ... minutes.

(18) 4 381 m. = ... km. + ... m.

(19) The smallest odd number is ....

(20) One year and 6 months = ... months.

(21) 11 000 m. = ... km.

(22) The temperature at which water boils is .... °C

(23) The unit of measuring weight is ....

(24) $1 - \frac{3}{8} = \frac{\dots\dots}{\dots\dots}$

3 ***Answer the following :***

(25) ***Arrange in an ascending order :***

2 km. , 3 500 m. , $\frac{1}{2}$ km. and 2 550 m.

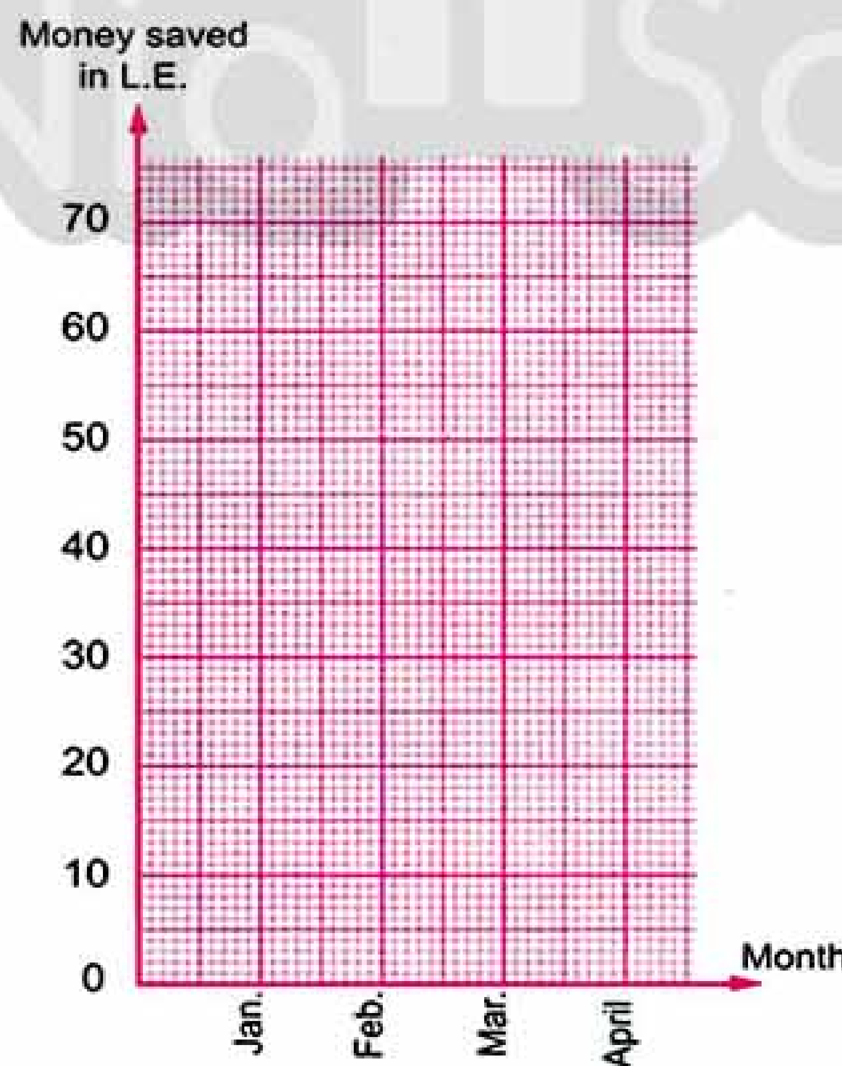
The order is : .... , ... , ... and ....

(26) A man distributed 360 pounds among his three sons equally.
Find the share of each son.
The share of each son = ... = ... pounds.

(27) ***The following table represents the money saved in 4 months :***

Month	January	February	March	April
Money saved in L.E.	30	70	50	20

Represent these data by a bar line graph.



4 Giza Governorate

Omerania Educational Directorate
Baraem Misr Language School



Answer the following questions :

1 Choose the correct answer :

(1) The day = ... hours. (24 or 30 or 60)

(2) 246 × 2 ☐ 246 ÷ 2 (> or < or =)

(3) $\frac{5}{7} - \frac{3}{7} =$ .... ($\frac{1}{7}$ or $\frac{2}{7}$ or $\frac{3}{7}$)

(4) ✱ 6 × 1 000 = ... (600 or 6 000 or 60)

(5) Five ninths = ... ($\frac{9}{5}$ or $\frac{5}{9}$ or $\frac{5}{3}$)

(6) .... is even number. (131 or 258 or 249)

(7) The normal human temperature is .... C (36° or 37° or 10°)

(8) 5 weeks = ... days. (35 or 15 or 20)

(9) The fraction for the shaded part [circle] is .... ($\frac{1}{4}$ or $\frac{1}{2}$ or $\frac{2}{3}$)

(10) One year and a quarter of year = ... months. (15 or 14 or 13)

(11) 8 kilograms = ... grams. (800 or 80 or 8 000)

(12) $\frac{2}{5} + \frac{3}{5} =$ .... (1 or $\frac{15}{2}$ or $\frac{1}{7}$)

(13) $\frac{1}{2}$ hour = ... minutes. (15 or 20 or 30)

(14) The probability of the impossible event = ... (0 or 1 or $\frac{1}{2}$)

(15) The area of the shape [shape] is .... [triangle] (3 or 8 or 6)

(16) [clock] It's .... (4 o'clock or 5 to 4 or half past 4)

(17) As tossing a metallic coin once , then the probability of appearing a head is .... (0 or $\frac{1}{2}$ or 1)

(18) The perimeter of a triangle whose side lengths are 8 cm. , 7 cm. and 5 cm. = ... cm. (16 or 18 or 20)

2 Complete :

(1) $\frac{4}{5} = \frac{16}{\cdots\cdots}$

(2) 5 kilograms and 240 grams = ... grams.

(3) 2 415 × 6 = ...

(4) The perimeter of square whose side length is 5 cm. = ... cm.

(5) The probability of certain event = ...

(6) ✱ 50 × 30 = ... × 100 = ...

(7) 4 008 ÷ 4 = ...

(8) $\frac{15}{25} = \frac{\cdots\cdots}{\cdots\cdots}$ (Simplify).

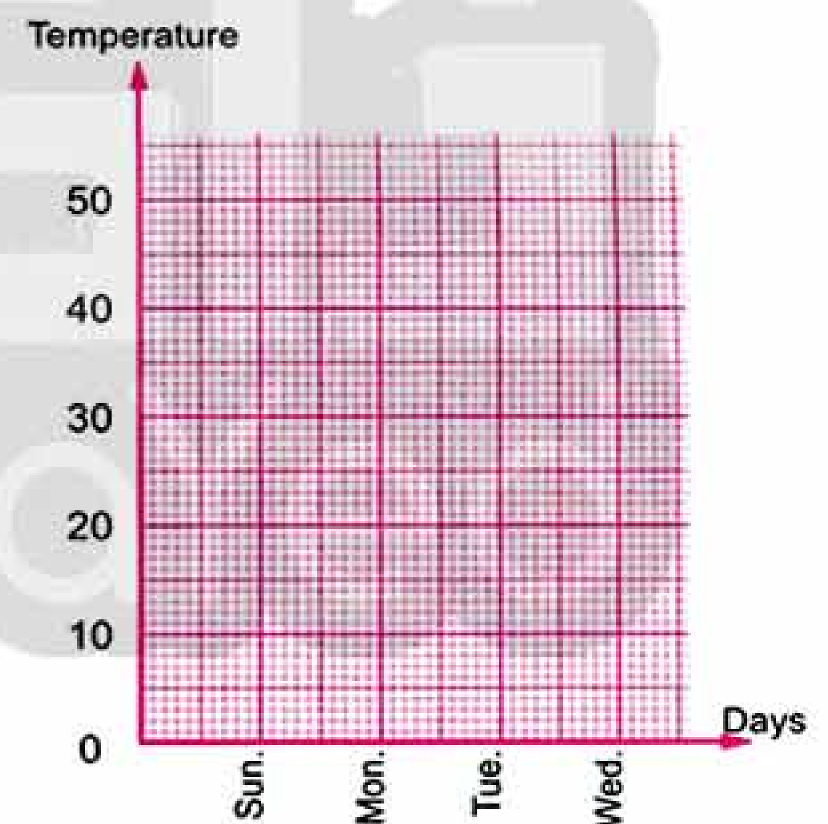
3 Answer the following :

(1) Ahmad distributed 396 pounds among his 3 sons equally.
What is the share of each of them ?
The share of each son = ... ÷ .... = ... pounds.

(2) ***The following table shows the temperature degrees for 4 days :***

Days	Temperature
Sunday	20°
Monday	10°
Tuesday	30°
Wednesday	20°

Represent these data by a broken line.



5 Giza Governorate

Giza South Educational Zone
Maths Inspection



Answer the following questions :

1 Choose the correct answer :

(1) 930 ÷ 3 = ... (230 or 210 or 310)

(2) The perimeter of a square whose side length 5 cm. = ... cm.
(20 or 9 or 40)

(3) The normal human body temperature is ....°C (100 or 37 or 40)

(4) .... is an even number. (357 or 129 or 346)

(5) $2\frac{1}{2}$ kilograms = ... grams. (2 050 or 2 500 or 3 000)

(6) The probability of an impossible event = ... (0 or 1 or $\frac{1}{2}$)

(7) The smallest odd number is .... (0 or 2 or 1)

(8) .... is unit of measuring length. (Hour or Gram or Metre)

(9) If we tossed a coin once , then the probability of appearance a tail = ... ($\frac{1}{2}$ or $\frac{1}{6}$ or $\frac{1}{4}$)

(10) $\frac{1}{7}$ ☐ $\frac{2}{3}$ (< or > or =)

(11) 1 hour and 20 minutes ☐ 80 minutes. (< or > or =)

(12) 3 weeks = ... days. (21 or 24 or 20)

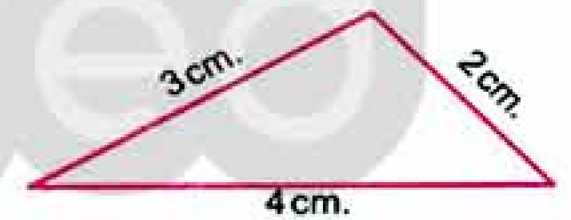
(13) 7 000 metres = ... kilometres. (700 or 70 or 7)

(14) It is a .... event that the sun rises in the east. (certain or possible or impossible)

(15) 428 × 2 ☐ 428 ÷ 2 (< or > or =)

(16) ✱ 50 × 1 000 = ... (500 or 5 000 or 50 000)

(17) The perimeter of the opposite figure = ... cm.



(9 or 24 or 10)

(18) $\frac{3}{5} = \frac{12}{\cdots\cdots}$ (24 or 20 or 14)

2 Complete :

(19) .... ÷ 4 = 21

(20) 7 250 metres = ... kilometres + ... metres.

(21) $\frac{1}{5}$ + ... = 1

(22) The area of the shape ⊞ = ... ☐

(23) $\frac{1}{2}$ of a day = ... hours.

(24) ✱ 7 × 10 = ... tens.

(25) 40 × 3 = ...

(26) $\frac{3}{8} + \frac{4}{8} = \frac{\dots\dots}{\dots\dots}$

3 *Answer the following questions :*

(27) ***Arrange in an ascending order :***

$\frac{3}{8}$, $\frac{1}{8}$, 1 and $\frac{5}{8}$

The order is : .... , ... , ... and ....

(28) Find : 7⟌2 807

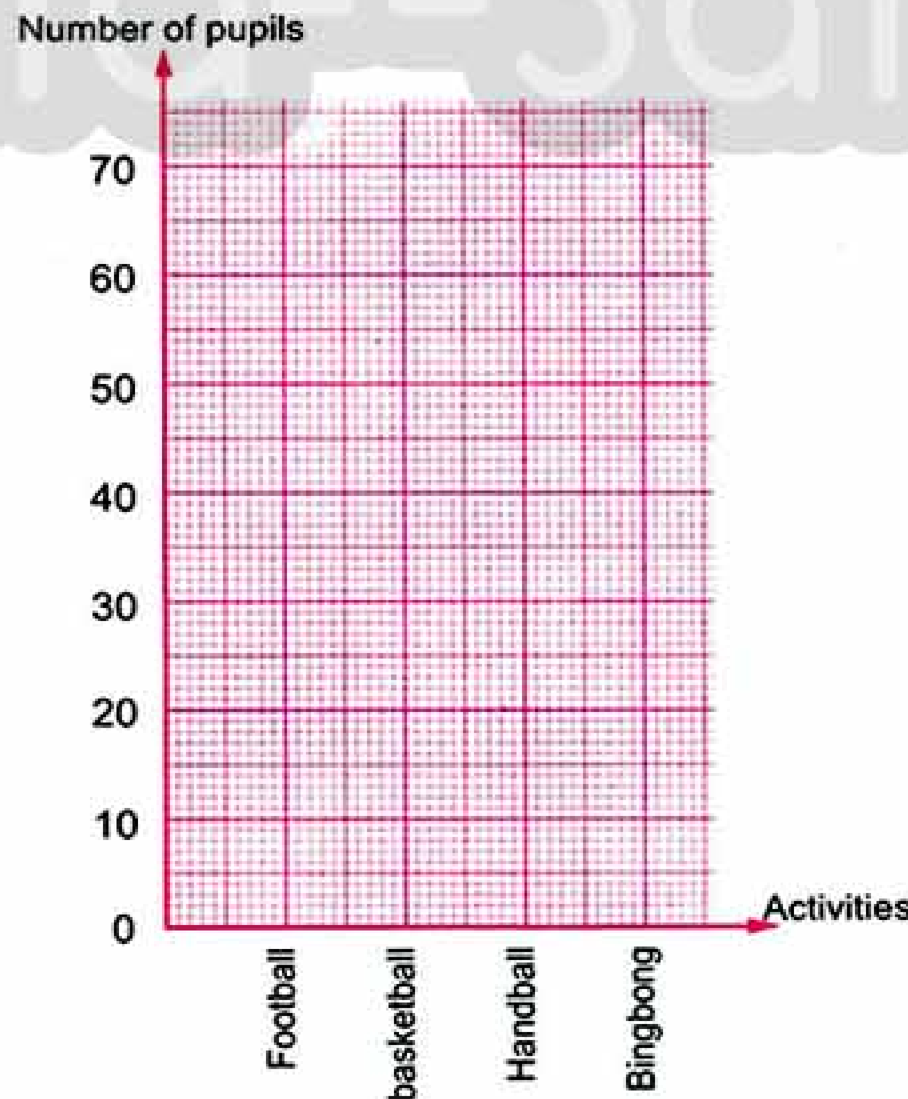
(29) Hady's father distributed 200 pounds equally among his four sons in the occasion of feast. What is the share of each of the four sons ?

The share of each son = ... = ... pounds.

(30) ***The following table shows the numbers of pupils in sports activities :***

Activities	Football	Basketball	Handball	Bingbong
Number of pupils	60	40	30	50

Represent these data by bar lines.



6 Alexandria Governorate

Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) $\frac{5}{5}$ ☐ three fifths (< or > or =)

(2) ✻ 83 × 10 = ... (83 or 830 or 800)

(3) The fraction that represents the colored part ☐☐☐ = ... ($\frac{1}{4}$ or $\frac{1}{3}$ or $\frac{2}{3}$)

(4) 4 kilograms and 150 gm. = ... gm. (1 504 or 154 or 4 150)

(5) $1 - \frac{3}{4}$ = ... ($1\frac{3}{4}$ or $\frac{3}{4}$ or $\frac{1}{4}$)

(6) The normal human's temperature is .... C (70° or 30° or 37°)

(7) The area of the figure = ... ☐ (6 or 12 or 3)

(8) The probability of impossible event = ... (1 or 0 or $\frac{1}{2}$)

(9) $\frac{5}{8} = \frac{\dots\dots}{24}$ (13 or 14 or 15)

(10) One year and a quarter of a year = ... months. (12 or 14 or 15)

(11) A bag contains 10 symmetrical balls , 5 of them are red and the rest are white , then the probability of drawn a white ball is .... ($\frac{1}{4}$ or $\frac{1}{3}$ or $\frac{1}{2}$)

(12) The perimeter of the triangle whose side lengths are 5 cm. , 5 cm. and 3 cm. = ... cm. (13 or 3 or 30)

(13) There are .... halves in a whole one. (2 or 3 or 4)

(14) 804 ÷ 4 = ... (21 or 201 or 402)

(15) 5 150 is an .... number. (odd or even or symmetrical)

(16) The smallest odd number is .... (2 or 1 or 0)

(17) ✻ (7 × 100) + (2 × 100) = ... × 100 (9 or 90 or 900)

(18) $\frac{1}{6} + \frac{4}{6}$ = ... ($\frac{5}{12}$ *or* $\frac{5}{6}$ *or* $\frac{3}{6}$)

(19) 133 × 2 .... 966 ÷ 3 (< *or* > *or* =)

2 *Complete :*

(1) 100 minutes = ... hour and .... minutes.

(2) A man distributed 930 pounds equally among his 3 sons , then the share of each son = ... pounds.

(3) 13 , 16 , 19 , ... , ... (in the same pattern)

(4) $\frac{20}{25}$ = ... (in the simplest form)

(5) The telling time of the opposite watch is ....



(6) 5 m. = ... cm.

(7) The perimeter of rectangle with length is 14 cm. and width is 10 cm. is .... cm.

3 *Answer the following questions :*

(1) ***Arrange in an ascending order :***

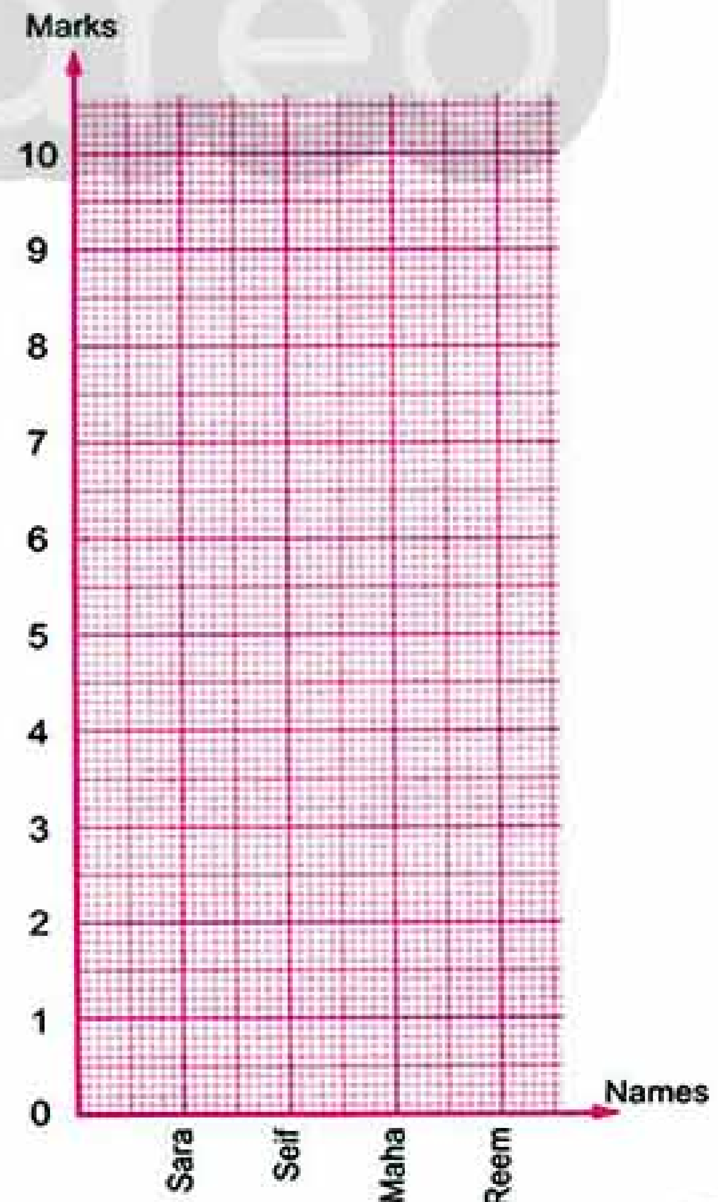
$\frac{7}{10}$, $\frac{3}{10}$, 1 , $\frac{4}{10}$ and $\frac{9}{10}$

The order is : .... , ... , ... , ... and ....

(2) ***The following table shows the marks of four pupils in English :***

Names	Sara	Seif	Maha	Reem
Marks	6	5	7	9

Represent these data by bar lines.





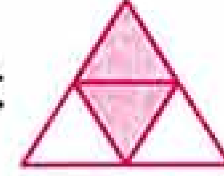
7 El-Kalyoubia Governorate

Maths Supervision

Answer the following questions :

1 *Choose the correct answer :*

(1) 3 600 grams .... 36 kg. (< or = or >)

(2) The fraction which represents the shaded part  = ...

($\frac{1}{4}$ or $\frac{1}{2}$ or $\frac{3}{4}$)

(3) As tossing a metallic coin once , then the probability of appearing a head is .... (0 or $\frac{1}{2}$ or 1)

(4) 1 000 .... 2 000 ÷ 2 (< or = or >)

(5) The perimeter of the square = side length × .... (2 or 3 or 4)

(6) $\frac{9}{10}$ − .... = $\frac{3}{10}$ ($\frac{3}{10}$ or $\frac{6}{10}$ or $\frac{2}{10}$)

(7) It is .... that the elephant flies. (possible or impossible or certain)

(8) ✻ (12 ÷ 4) + 17 .... 10 × 2 (< or = or >)

(9) The tallness of any person is measured in ....

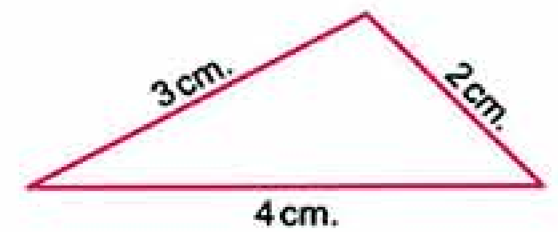
(kg. or hour or cm.)

(10) The number .... is an even number. (2 221 or 3 110 or 4 463)

(11) The area of the square whose side length is the unity equals .... unit area. (1 or 4 or 16)

(12) 8 400 × 4 .... 8 460 ÷ 4 (< or = or >)

(13) The perimeter of the opposite figure = ... cm.



(10 or 9 or 8)

(14) ✻ 40 × 100 = ... (4 000 or 140 or 400)

(15) If we divide .... by 5 we get 5 (1 or 25 or 5)

(16) 30 hours = 1 day and .... hours. (6 or 18 or 24)

(17) The probability of the impossible event = ... (1 or 0 or $\frac{1}{2}$)

(18) $20 \times 5 \times 36 = 100 \times$ .... (36 *or* 50 *or* 100)

(19) $\frac{8}{9} - \frac{3}{9}$ .... $\frac{1}{9} + \frac{4}{9}$ (< *or* = *or* >)

2 Complete :

(1) 54 072 ÷ 9 = ...

(2) 9 tens ÷ 3 = ...

(3) $1 - \frac{4}{9} =$ ....

(4) The probability of sure event = ...

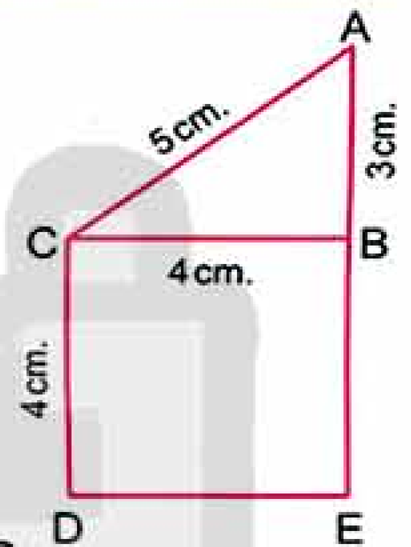
(5) 1 515 , 1 520 , 1 525 , ... , ... (in the same pattern)

(6) The probability of appearing a number less than 3 as throwing a fair die once = ...

(7) The sum of any two odd numbers is .... number.

3 Answer the following :

(1) ***From the opposite figure.***



Find :

[a] The perimeter of a triange ABC = ... cm.

[b] The perimeter of whole shape AEDC = ... cm.

(2) A father distributed 630 pounds equally among his 3 sons. What is the share of each son ?

The share of each son = ... = ... pounds.

8 El-Sharkia Governorate

Directorate of Educational
Dept. of Governmental L. Schools



Answer the following questions :

1 Choose the correct answer :

(1) The probability of the certain event = ... (1 *or* 0 *or* $\frac{1}{2}$)

(2) 7 070 ÷ 7 ☐ 7 × 123 (> *or* < *or* =)

(3) The unit of measuring length is .... (kg. *or* km. *or* hour)

(4) Four sevenths = ... ($\frac{4}{7}$ *or* $\frac{7}{4}$ *or* $\frac{2}{7}$)

(5) .... ÷ 8 = 9 (72 *or* 64 *or* 48)

(6) Two hours and a quarter = ... minutes. (115 *or* 215 *or* 135)

(7) The number .... is an even number. (287 **or** 356 **or** 211)

(8) $\frac{2}{5} + \frac{3}{5} =$ .... ($\frac{5}{10}$ **or** $\frac{1}{5}$ **or** 1)

(9) The sun rises from the east is a .... event.
(sure **or** possible **or** impossible)

(10) 486 ÷ 2 = ... (342 **or** 243 **or** 432)

(11) The temperature degree of the human is measured by ....
(metre **or** thermometer **or** kilometre)

(12) A square of perimeter 8 cm. , its area = ... cm^2. (8 **or** 4 **or** 64)

(13) 30 hours = one day and .... hours. (4 **or** 5 **or** 6)

(14) $\frac{1}{2} = \frac{6}{\cdots\cdots}$ (12 **or** 18 **or** 24)

(15) The probability of appearance 2 on the upper face of a fair die is .... ($\frac{1}{2}$ **or** $\frac{1}{3}$ **or** $\frac{1}{6}$)

(16) One year and a quarter of year = ... months. (13 **or** 15 **or** 17)

(17) 1 ☐ $\frac{8}{8}$ (> **or** = **or** <)

(18) ✻ 23 × 10 = ... (23 **or** 230 **or** 2 300)

(19) The side lengths of a triangle are equal , each of them equals 5 cm. , then its perimeter = ... cm. (10 **or** 15 **or** 25)

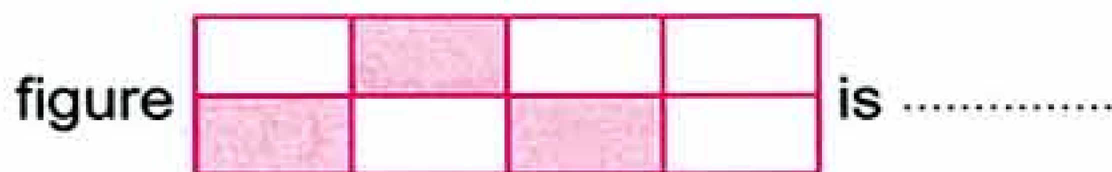
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2 ***Complete :***

(20) $\frac{15}{35} = \frac{\cdots\cdots}{7}$

(21) The even numbers which are less than 3 are .... and ....

(22) The fraction which represents the shaded part in the figure



is ....

(23) 5 weeks = ... days.

(24) ✻ 9 × 1 000 = 1 000 × .... = ...

(25) $\frac{\cdots\cdots}{\cdots\cdots} + \frac{5}{7} = 1$

(26) 6⟌2 406

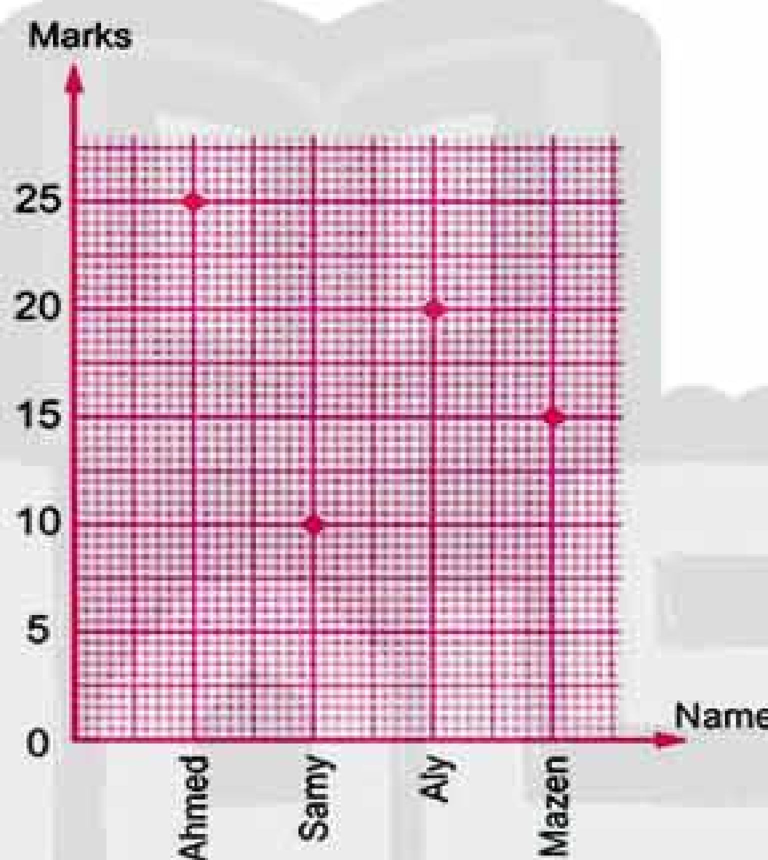
3 Answer the following questions :

(27) A man distributed 930 pounds between his three sons equally. What is the share of each of them ?

The share of each son = ... ÷ .... = ... pounds.

(28) ***The following table shows the marks of some pupils in a month :***

Name	Ahmed	Samy	Aly	Mazen
Marks	25	....	20	....



[a] Complete the table from the graph.

[b] Represent the data by a broken line.

9 El-Monofia Governorate

Shebien El-Kom Educational Zone
Maths Supervision



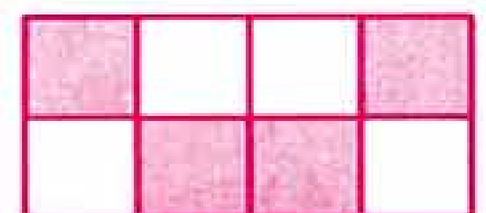
Answer the following questions :

1 Choose the correct answer :

(1) $\frac{1}{5}$ + three fifths = ... ($\frac{4}{5}$ or $\frac{3}{5}$ or $\frac{2}{5}$)

(2) A unit of measuring weight is .... (kg. or km. or hour)

(3) The fraction which represents the shaded part is ....



(1 or $\frac{3}{8}$ or $\frac{1}{2}$)

(4) The temperature degree of the normal human is .... °C

(70 or 37 or 47)

(5) As tossing a metallic coin once , then the probability of appearing a head is .... (0 or $\frac{1}{2}$ or 1)

(6) 999 ÷ 9 = 100 + ... (10 or 11 or 800)

(7) $\frac{3}{4} = \frac{.........}{32}$ (24 or 12 or 8)

(8) 30 hours .... 2 days. (< or > or =)

(9) The event of (the sun rises from the east) is .... event.

(possible or impossible or certain)

(10) ✻ 8 × 100 .... 2 × 4 × 1 000 (< or > or =)

(11) The number of days in a year is .... days. (360 or 365 or 370)

(12) The smallest fraction from the following is .... ($\frac{1}{10}$ or $\frac{3}{10}$ or $\frac{7}{10}$)

(13) The area of the shape (grid of 6 squares) = ... □ (10 or 6 or 12)

(14) 5 kg. .... 5 000 grams. (> or < or =)

(15) 64 ÷ .... = 15 – 7 (1 or 8 or 23)

(16) $1 - \frac{4}{9}$ .... $\frac{1}{9} + \frac{4}{9}$ (= or > or <)

(17) One year and 5 months = ... months. (13 or 15 or 17)

(18) A box contains 3 red balls and 4 yellow balls. One ball is chosen randomly , then the probability of chosen ball is yellow = ...

($\frac{3}{7}$ or $\frac{4}{7}$ or $\frac{1}{7}$)

(19) $\frac{1}{3}$ = ... ($\frac{7}{10}$ or $\frac{9}{11}$ or $\frac{5}{15}$)

2 Complete :

(1) The odd number that comes just before 51 is ....

(2) $\frac{2}{5} - \frac{1}{5}$ = ...

(3) ✻ .... × 10 = 6 tens = ...

(4) The time on the opposite watch is ....



(5) $3\frac{1}{2}$ km. = ... m.

(6) The perimeter of the square of side length 9 cm. = ... cm.

(7) $\frac{5}{8} + \frac{\dots\dots}{8} = 1$

3 Answer the following questions :

(1) Amr bought 4 jackets , if the price of each one is L.E. 375

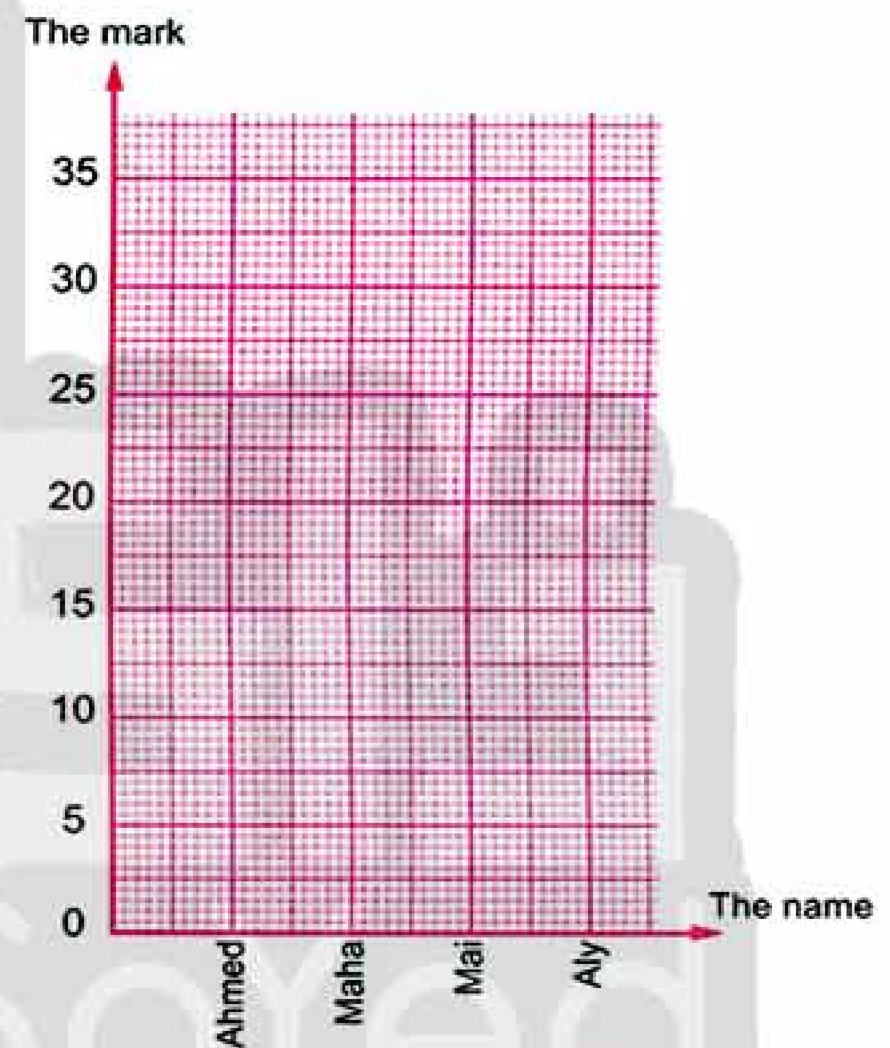
Find what Amr paid.

Amr paid = ... = L.E. ....

(2) ***The following table shows the marks of some pupils in maths in one month :***

The name	The mark
Ahmed	25
Maha	30
Mai	20
Aly	35

Represent these data by a broken line.



10 El-Gharbia Governorate

Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) 14 021 ÷ 7 = ... (203 or 2 003 or 3 002)

(2) 572 × 6 = ... (34 312 or 3 431 or 3 432)

(3) The fraction if added to $\frac{3}{7}$ the result will be 1 is .... ($\frac{7}{7}$ or $\frac{4}{7}$ or $\frac{3}{7}$)

(4) The perimeter of the square whose side length 6 cm. = ... cm. (24 or 36 or 12)

(5) 6 004 metres = ... km. and 4 metres. (600 or 60 or 6)

(6) The unit of measuring time is .... (gram or hour or degree)

(7) ✱ 2 × 3 × 100 ☐ 6 × 1 000 (= or > or <)

2 Choose the correct answer :

(1) The probability of appearing an odd number if a fair die is thrown once = ... (half or zero or one)

(2) Two days and two hours = ... hours. (48 or 50 or 120)

(3) $\frac{16}{24} = \frac{2}{\dots}$ (4 or 6 or 3)

(4) The number of the even numbers included between 10 and 20 is .... (4 or 6 or 8)

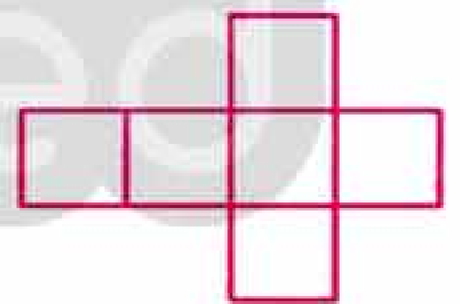
(5) 2 061 ÷ 9 ☐ 2 061 × 9 (< or = or >)

(6) The bear will fly is .... event. (certain or possible or impossible)

3 Choose the correct answer :

(1) 3 515 ÷ .... = 703 (7 or 3 or 5)

(2) The area of the opposite shape = ... ☐



(8 or 6 or 9)

(3) The normal body temperature is .... °C (20 or 100 or 37)

(4) ✱ 10 × 11 = ... (1 010 or 110 or 1 100)

(5) The suitable unit to measure the distance between to cities is .... (kg. or cm. or km.)

(6) .... > $\frac{2}{5}$ ($\frac{2}{7}$ or $\frac{2}{11}$ or $\frac{9}{9}$)

4 ***Complete :***

(1) It's ....



(2) $\frac{3}{5} = \frac{......}{35}$

(3) The sum of two odd numbers is an .... number.

(4) The perimeter of the triangle whose side lengths are 6 cm. , 5 cm. and 4 cm. = ... cm.

(5) The probability of certain event = ...

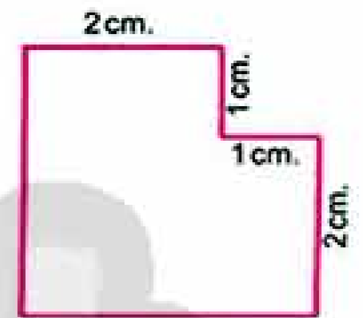
(6) The number that if divided by 5 the result will be 105 is ....

(7) 64 , 32 , 16 , ... , ... (in the same pattern)

5 ***Answer the following questions :***

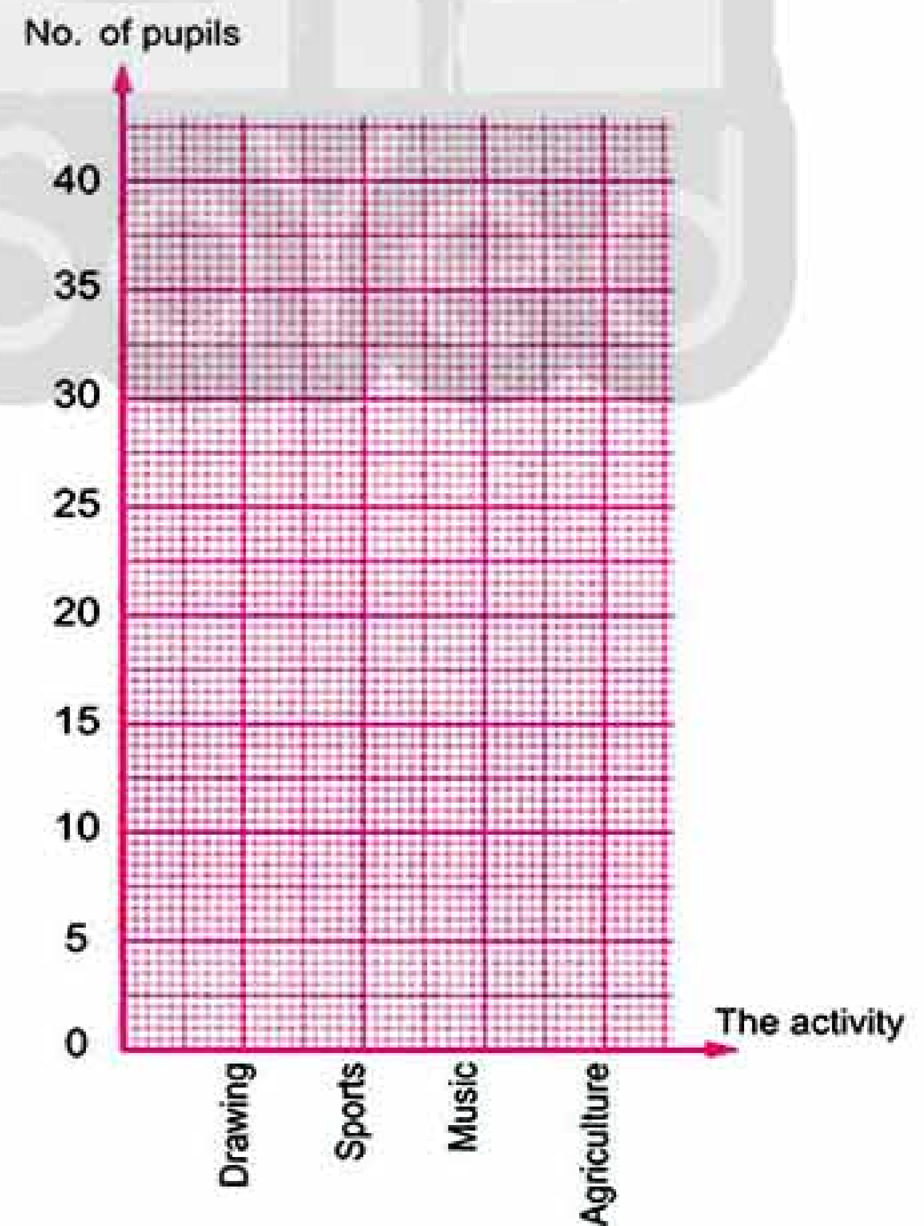
(1) ***Calculate the perimeter of the opposite shape :***

The perimeter = ... cm.



(2) ***The following table shows the number of pupils who participated in school activites , represent these data by a broken line :***

The activity	No. of pupils
Drawing	15
Sports	35
Music	25
Agriculture	10



11 El-Dakahlia Governorate

Math's Supervision



Answer the following questions :

1 Choose the correct answer :

(1) .... is odd number. (6 or 8 or 11)

(2) The normal human body temperature = ... °C (73 or 27 or 37)

(3) Three fives .... three fifths. (> or < or =)

(4) 1 212 ÷ 4 = ... (313 or 303 or 333)

(5) $\frac{2}{7} + \frac{2}{7} + \frac{\cdots}{7} = 1$ (3 or 4 or 5)

(6) Broken line and bar-lines are the methods for representing .... (lengths or weight or data)

(7) $\frac{1}{2}$ kg. .... 500 kg. (= or < or >)

(8) The perimeter of rectangle which length is 5 cm. and width is 3 cm. = ... (8 or 16 or 24)

(9) 304 × 3 = 900 + ... (12 or 21 or 2)

(10) ✻ 29 × 10 = ... (29 or 290 or 2 900)

(11) Probability of certain event = ... (zero or 1 or 2)

(12) It's ten to seven in digits is .... (7 : 10 or 6 : 50 or 10 : 07)

(13) $\frac{4}{9} + \frac{5}{9}$ .... $\frac{2}{2}$ (< or > or =)

(14) .... kilometres = 4 000 metres. (2 or 8 or 4)

(15) The event of the sun rises from the east is .... (certain or possible or impossible)

(16) The perimeter a square = 20 cm. , then its side length = ... cm. (5 or 10 or 80)

(17) The price of 10 pencils = 5 pounds , then the price of each = ... pounds. (2 or $\frac{1}{2}$ or 50)

(18) 888 ÷ .... = 222 (3 or 4 or 5)

2 Complete :

(1) The perimeter of triangle whose sides are 3 cm. , 4 cm. and 5 cm. = ... cm.

(2) Two years = ... months.

(3) .... ÷ 3 = 222

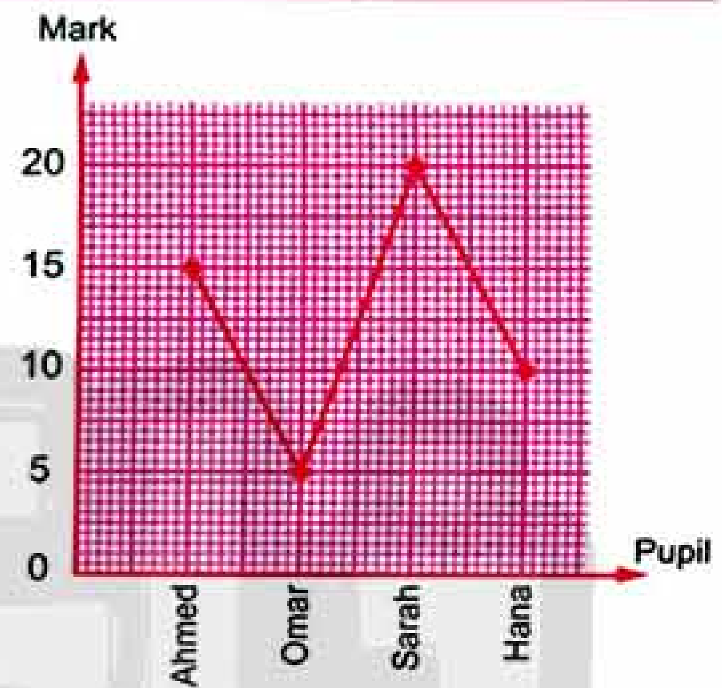
(4) 3 kilograms + 15 grams = ... grams.

(5) $1 - \frac{2}{3}$ = ...

(6) ✻ (4 × 1 000) + (5 × 1 000) = ... × 1 000 = ...

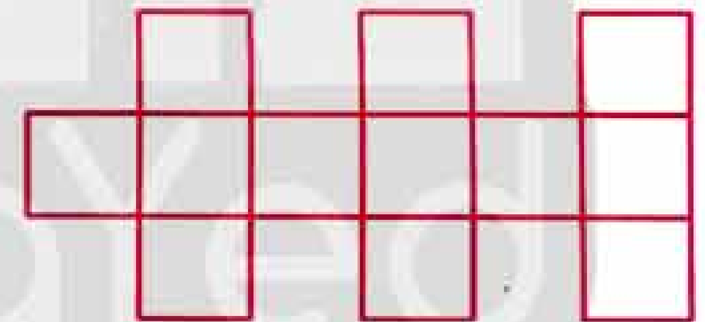
3 Answer the following questions :

(1) ***The opposite graph represents the marks of four pupils in math exam , look at the graph and complete the table :***



Pupil	Ahmed	Omar	Sarah	Hana
Mark	....	....	....	....

(2) Look at the opposite figure , then calculate its area and its perimeter :



[a] The area = ... ☐

[b] The perimeter = ... units.

(3) ***Find :***

[a] 346×7 = ...

[b] $1\,836 \div 3$ = ...



12 Ismailia Governorate

Directorate of Education
Maths Insepection

Answer the following questions :

1 Complete the following :

(1) $\frac{3}{5}$ + ... = 1

(2) 4 weeks = ... days.

(3) Four fifths = $\frac{\cdots\cdots}{\cdots\cdots}$

(4) The area of the shape [| |] is …………… [ ]

(5) A triangle its side lengths are 5 cm. , 4 cm. and 3 cm. , then its perimeter = …………… cm.

(6) …………… ÷ 3 = 132

(7) Then odd number just after 55 is ……………

(8) $\frac{6}{10} = \frac{3}{\cdots\cdots}$

2 *Choose the correct answer :*

(1) $\frac{2}{7}$ …………… $\frac{5}{7}$ (< **or** > **or** =)

(2) $\frac{2}{5} - \frac{1}{5} =$ …………… ($\frac{3}{5}$ **or** 1 **or** $\frac{1}{5}$)

(3) $\frac{3}{5} = \frac{\cdots\cdots}{20}$ (4 **or** 12 **or** 6)

(4) $\frac{1}{3} + \frac{2}{3} =$ …………… (3 **or** $\frac{3}{6}$ **or** 1)

(5) $1 = \frac{5}{\cdots\cdots}$ (1 **or** 5 **or** 0)

(6) 3 km. = …………… m. (30 **or** 300 **or** 3 000)

(7) * 100 × 20 [ ] 4 × 5 × 1 000 (> **or** = **or** <)

(8) The number …………… is an even number. (61 **or** 16 **or** 11)

(9) The probability of impossible event = …………… (0 **or** 1 **or** $\frac{1}{2}$)

(10) The normal human temperature is …………… °C (37 **or** 73 **or** 100)

(11) It is …………… that the elephant flies.
(possible **or** impossible **or** certain)

(12) As tossing a coin once the probability of appearing a head is ……………
($\frac{1}{2}$ **or** $\frac{1}{6}$ **or** 1)

(13) A square its side length is 3 cm. , then its perimeter = …………… cm.
(6 **or** 9 **or** 12)

(14) $\frac{5}{6} > \frac{5}{7}$ (✓ **or** ✗)

(15) 2 years = …………… months. (24 **or** 12 **or** 60)

(16) The denominator of fraction $\frac{7}{9}$ is …………… (7 **or** 9 **or** 1)

(17) 912 ÷ 3 = 94 (✓ or ✗)

(18) The distance between Cairo and Ismailia is measured in .... (cm. or m. or km.)

(19) One day = ... hours. (7 or 14 or 24)

(20) 2 kg. .... 1 475 gm. (< or > or =)

3 ***Answer the following questions :***

(1) ✻ 9 × 10 = ... tens + 6 tens.

(2) 276 × 4 = ...

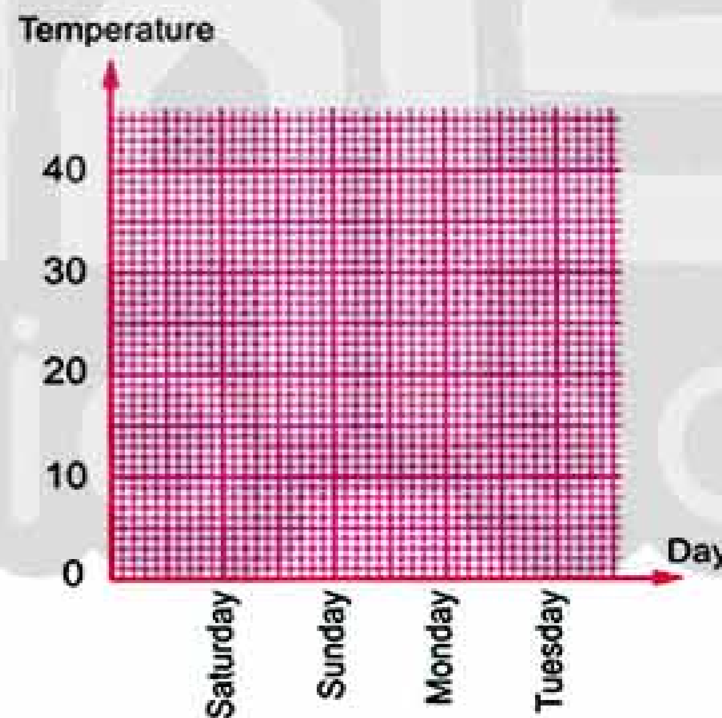
(3) A rectangle its length is 4 cm. and its width is 3 cm. , then find its perimeter.

The perimeter = ... = ... cm.

(4) ***The following table shows the temperature degrees recorded in 4 days :***

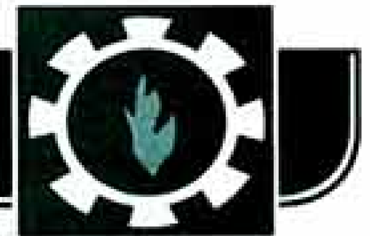
Day	Saturday	Sunday	Monday	Tuesday
Temperature	20	30	10	30

Represent these data by a broken line.



13 Suez Governorate

Maths Inspectorate



Answer the following questions :

1 ***Choose the correct answer :***

(1) 3 km. = ... metres. (3 or 300 or 3 000)

(2) The normal human temperature is .... °C (73 or 37 or 30)

(3) Five sixths .... $\frac{6}{6}$ (< or = or >)

(4) The probability of the certain event is .... ($\frac{1}{2}$ or zero or 1)

(5) $\frac{5}{8} = \frac{.......}{24}$ (13 or 15 or 14)

(6) The smallest even number is .... (1 or 2 or 0)

(7) Two years and one month = ... months. (12 or 25 or 24)

(8) 8 080 ÷ 8 = ... (1 010 or 11 or 101)

(9) The perimeter of square of side length 5 cm. is .... cm.
(25 or 20 or 10)

(10) .... is from odd numbers. (16 or 14 or 15)

(11) As tossing a coin once the probability of appearing a tail is ....
($\frac{1}{2}$ or 1 or 0)

(12) Half of a day = ... hours. (30 or 12 or 6)

(13) 4 016 ÷ 2 = ... (2 008 or 2 003 or 208)

(14) The area of the figure [figure] is .... [triangle unit] (4 or 8 or 10)

(15) Unit of measuring weight is .... (kg. or km. or m.)

(16) $\frac{2}{5} + \frac{3}{5} =$ .... ($\frac{1}{5}$ or 1 or $\frac{4}{5}$)

(17) 505 × 5 ☐ 505 ÷ 5 (> or = or <)

(18) 5 tens + ... = 51 (100 or 10 or 1)

(19) ✻ 47 × 100 = ... (4 700 or 470 or 47)

(20) Three fifths = ... ($\frac{3}{5}$ or $\frac{5}{3}$ or $\frac{2}{5}$)

2 ***Complete :***

(1) 5 metres = ... centimetres.

(2) 20 ÷ .... = 4

(3) $\frac{7}{9} - \frac{5}{9} =$ ....

(4) ✻ 8 × 1 000 = ... thousands = ...

(5) 2 000 gm. = ... kilograms.

(6) 5 , 10 , 15 , ... , ... (in the same pattern)

(7) The probability of the impossible event = ...

(8) $\frac{12}{27} = \frac{4}{\dots\dots}$

3 ***Answer the following questions :***

(1) ***Find :*** 236 × 4 = ...

(2) ***Arrange in an ascending order :***

$\frac{1}{5}$, $\frac{1}{2}$, $\frac{1}{6}$ and $\frac{1}{3}$

The order is : .... , ... , ... and ....

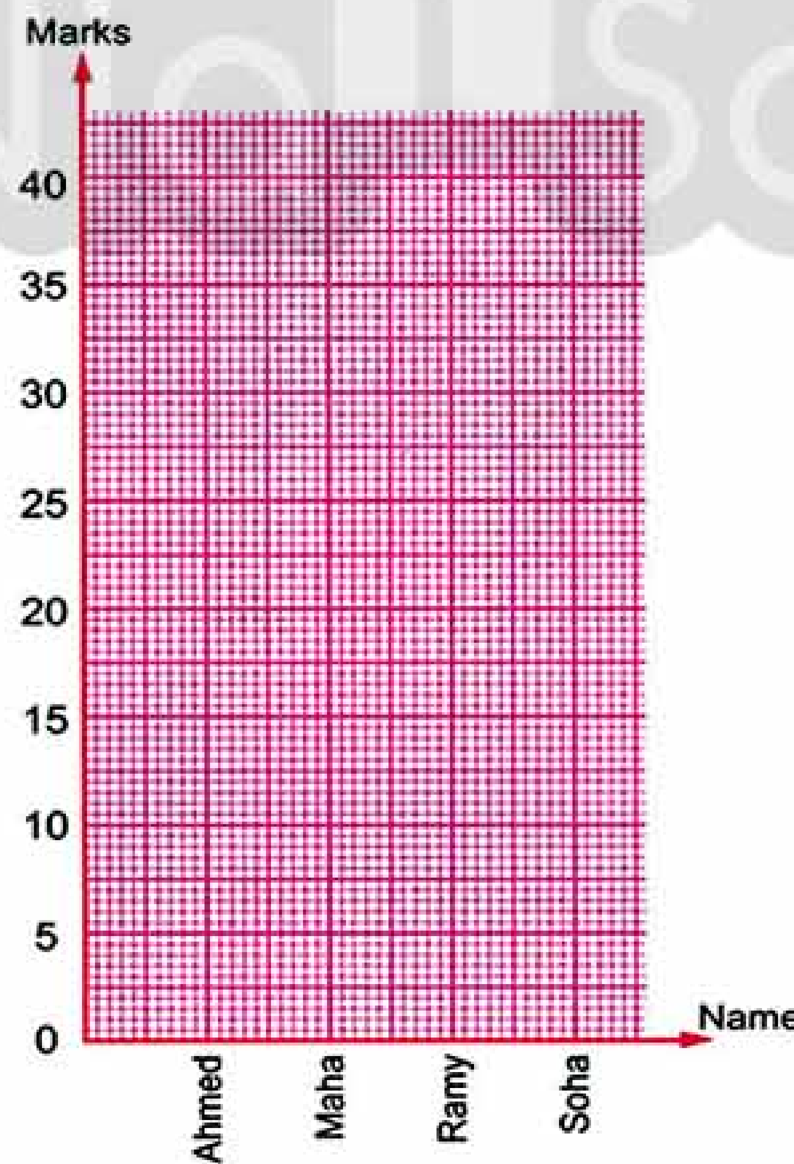
(3) A father distributed 183 pieces of chocolate among his 3 sons , find the share of each son.

The share of each son = ... ÷ .... = ...

(4) ***The following table represents the marks of four pupils in an exam :***

Name	Ahmed	Maha	Ramy	Soha
Marks	25	30	40	35

Represent these data by bar charts.



14 Port Said Governorate

North Educational Directorate
Port Said Official Language School



Answer the following questions :

1 Choose the correct answer :

(1) Four sixths .... $\frac{4}{6}$ (< or = or >)

(2) Which of the following numbers represents an odd number ?
(5 361 or 5 362 or 5 366)

(3) The normal human body temperature is C
(70° or 30° or 37°)

(4) ✱ 47 × 10 = ... (40 or 70 or 470)

(5) The probability of impossible event = ... (1 or zero or $\frac{1}{2}$)

(6) One year and 2 months = ... months. (12 or 14 or 15)

(7) The unit of measuring weight is ....
(kilogram or metre or hour)

(8) $\frac{15}{25} = \frac{\ldots\ldots}{5}$ (3 or 5 or 7)

(9) The perimeter of triangle whose sides lengths are 6 cm. , 4 cm. and 3 cm. = ... cm. (13 or 14 or 15)

(10) The time is [clock] ....
(5 o'clock or 5 minutes to 5 or 5 minutes past 5)

2 Complete the following :

(1) 6 kilograms and 250 grams = ... grams.

(2) The probability of appearing a head when tossing a coin once = ...

(3) 213 × 3 = ...

(4) $\frac{1}{4} + \frac{2}{4}$ = ...

(5) The fraction which represents the following figure [figure] is ....

(6) ✱ 10 × 600 = ... × 1 000 = ...

(7) One day = ... hours.

(8) 75 metres = ... centimetres.

(9) 777 ÷ 7 = ...

(10) The perimeter of the figure (rectangle: 3cm., 2cm., 3cm., 2cm.) = ... cm.

3 ***Answer the following questions :***

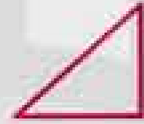
[a] ***Arrange in an ascending order :***

$\frac{1}{8}$, $\frac{6}{8}$, $\frac{5}{8}$ and $\frac{2}{8}$

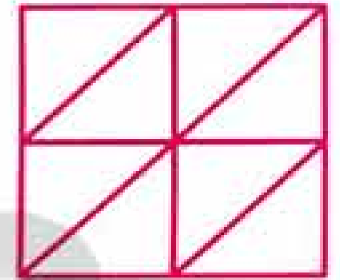
The order is : .... , ... , ... and ....

[b] ***In the opposite figure :***

Find :

(1) The area = ... 

(2) The perimeter = ... length units.



4 ***Answer the following questions :***

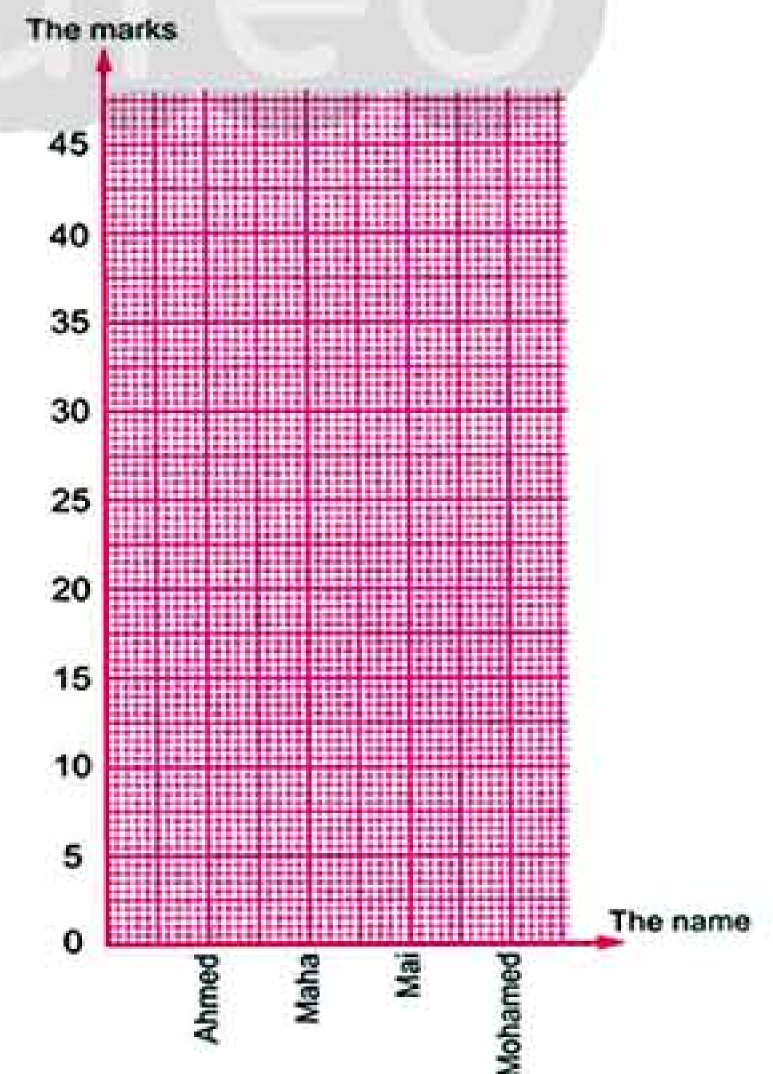
[a] A man distributed 963 pounds among his 3 sons equally. What is the share of each of them ?

The share of each of them = ... ÷ .... = ... pounds.

[b] ***The following table shows the marks of some pupils in maths in one month :***

The name	The mark
Ahmed	25
Maha	30
Mai	20
Mohamed	45

Represent these data by a broken line.



15 Damietta Governorate

Maths Inspection



Answer the following questions :

1 ***Choose the correct answer :***

(1) The number .... is an odd number. (13 or 42 or 54 or 86)

(2) 3 kilograms = ... grams. (3 or 30 or 300 or 3 000)

(3) $5 \times 4 \times 10 =$ .... (200 or 90 or 30 or 20)

(4) The temperature degree of the normal human is C

(35° or 37° or 42° or 73°)

(5) 3 weeks = ... days. (180 or 72 or 21 or 24)

(6) $\frac{1}{3}$ .... $\frac{1}{5}$ (> or < or = or +)

(7) $18 \div$ .... $= 9$ (1 or 2 or 9 or 18)

(8) A box contains 2 white balls and 3 red balls, one ball is drawn randomly, then the probability of the drawn ball is white = ...

($\frac{2}{5}$ or $\frac{3}{5}$ or $\frac{2}{3}$ or $\frac{3}{2}$)

(9) The sum of two odd numbers is 30 , then they are ....

(51 and 49 or 12 and 18 or 17 and 13 or 20 and 10)

(10) 35 metres = ... centimetres.

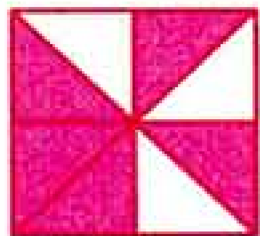
(35 or 350 or 3 500 or 35 000)

(11) 26 hours = one day and .... hours. (2 or 6 or 8 or 24)

(12) It is .... that the sun rises from the east.

(possible or impossible or certain or great)

(13) The fraction which represents the shaded part in the figure



is .... (1 or $\frac{1}{2}$ or $\frac{5}{8}$ or $\frac{5}{3}$)

(14) Two thirds = ... ($\frac{3}{2}$ or 23 or $\frac{2}{3}$ or $2\frac{1}{3}$)

(15) The probability of getting a tail as throwing a fair coin once = ...

(1 or zero or $\frac{1}{6}$ or $\frac{1}{2}$)

(16) One hour and 30 minutes = ... minutes.

(30 **or** 60 **or** 90 **or** 150)

(17) The perimeter of a square of side length 5 cm. is .... cm.

(20 **or** 10 **or** 9 **or** 30)

(18) $\frac{7}{10}$ = ... ($\frac{9}{10} - \frac{1}{10}$ **or** $\frac{14}{20}$ **or** $\frac{2}{10} + \frac{3}{10}$ **or** $\frac{2}{5}$)

(19) 4 008 ÷ 4 = ... (12 **or** 102 **or** 2 001 **or** 1 002)

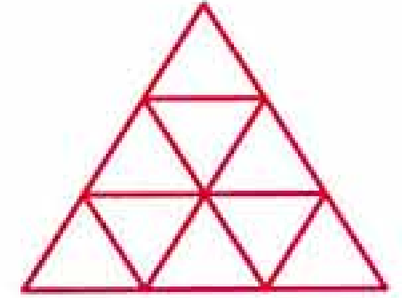
2 Complete the following :

(20) A triangle whose side lengths are 6 cm. , 4 cm. and 5 cm. , then its perimeter = ... = ... cm.

(21) $\frac{2}{3} = \frac{\cdots\cdots}{9}$

(22) The probability of the impossible event = ...

(23) The area of the opposite figure = ...



(24) If 4 × 6 = 24 , then 24 ÷ 4 = ...

(25) $1 - \frac{2}{5}$ = ...

(26) 8 , 12 , 16 , ... (in the same pattern)

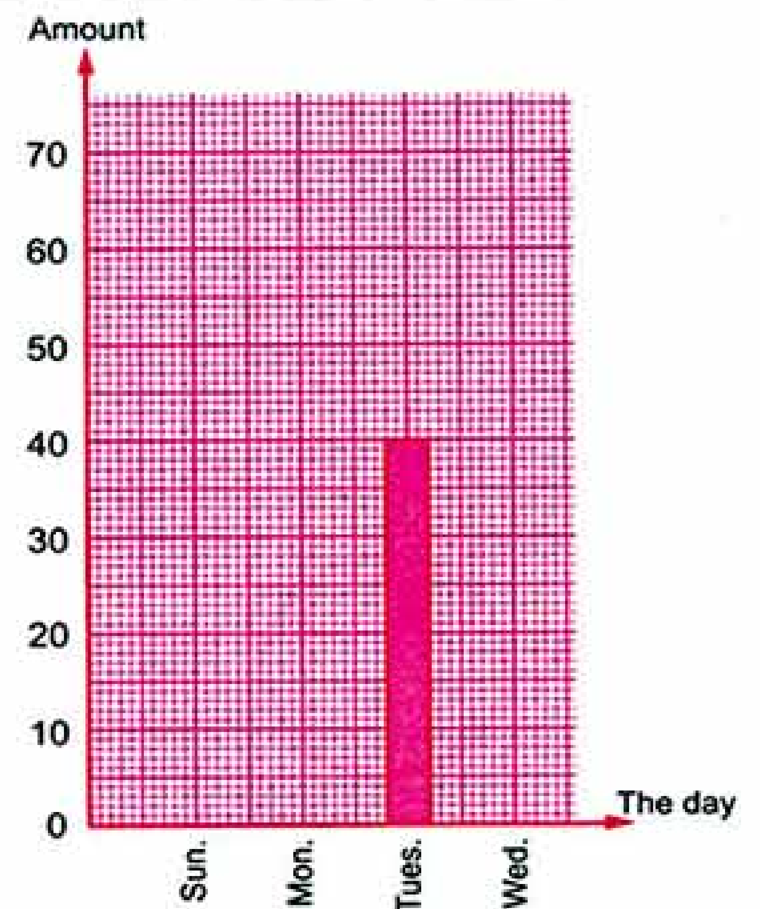
3 Answer the following :

(27) A father distributed 200 pounds equally among his four sons.
What is the share of each son ?
The share of each son = ... = ... pounds.

(28) ***The following table and graph show the money saved by Ahmed during four days :***

The day	Amount
Sunday	30
Monday	60
Tuesday	....
Wednesday	50

Complete the table and represent these data by bar lines.



16 Kafr El-Sheikh Governorate

Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) $\frac{5}{8} = \frac{\cdots\cdots}{24}$ (13 or 14 or 15)

(2) Appearing a tail when tossing a coin once is .... event.

(certain or possible or impossible)

(3) The perimeter of the figure [2 cm., 1 cm., 1 cm., 2 cm.] = ... cm.

(6 or 9 or 12)

(4) Four sixths .... $\frac{1}{6} + \frac{5}{6}$ (> or < or =)

(5) .... ÷ 3 = 203 (906 or 609 or 303)

(6) The number of the year's days = ... days.

(305 or 365 or 100)

(7) Which is heavier , 10 kg. of iron or 10 kg. of cotton ?

(Iron or Cotton or The same weight)

(8) 612 ÷ 3 = ... (34 or 204 or 43)

(9) ✻ 37 × 1 000 = ... (370 or 3 700 or 37 000)

(10) The side length of a square its perimeter is 20 cm. = ... cm.

(5 or 80 or 10)

(11) The number of the even numbers that are included between 20 and 40 is .... (2 or 6 or 9)

(12) The normal human's temperature is C

(73° or 37° or 30°)

(13) [clock] It's .... (6 o'clock or 5 to 6 or 5 past 6)

(14) Two years and one month = ... months. (12 or 24 or 25)

2 *Complete each of the following :*

(15) The ascending order of the fractions :
$\frac{1}{8}$, $\frac{7}{8}$, $\frac{5}{8}$ and $\frac{3}{8}$ is ………… , ………… , ………… and …………

(16) The triangle whose side lengths are 5 cm. , 5 cm. and 7 cm.
, then its perimeter = ……………………… = ………… cm.

(17) The number that if divided by 6 the result will be 13 is …………

(18) 6 , 12 , 24 , ………… , ………… , ………… (in the same pattern).

(19) 5 264 grams = ………… kilograms + ………… grams

(20) 2 154 × 3 = …………

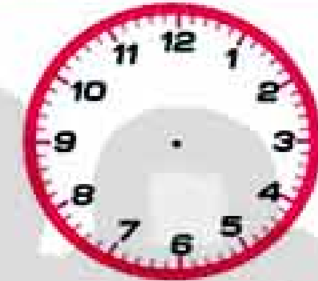
(21) ✻ 3 × 5 × 10 = ………… × 10 = …………

(22) The perimeter of the square whose side length is 2 cm. = ………… cm.

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3 *Answer the following :*

(23) Draw the two hands :



It's a quarter past 5

(24) The area of the figure = ………… ▭

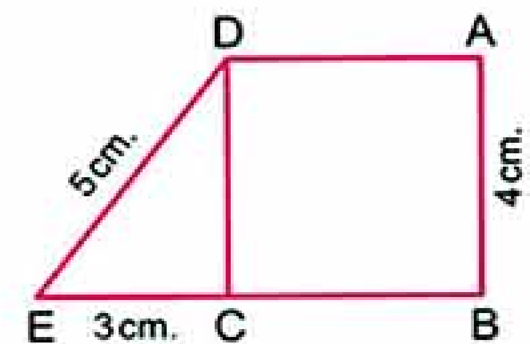
(25) $1 - \frac{5}{11}$ = …………

(26) ***Arrange the following in an ascending order :***

One month , 24 days and 24 hours

The order is : ………… , ………… and …………

(27) ***In the opposite figure :***



ABCD is a square ,
AB = 4 cm. , DE = 5 cm. , CE = 3 cm.
, then the perimeter of the figure
ABED = ……………………… = ………… cm.

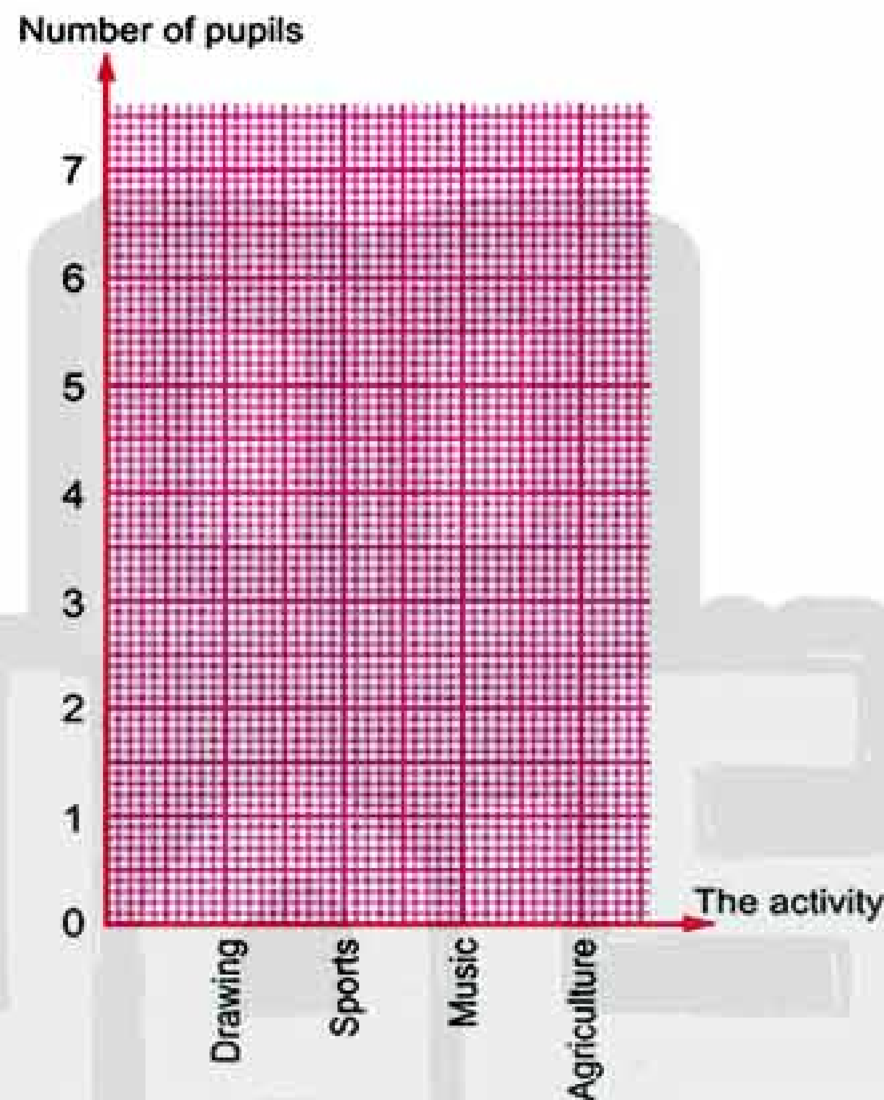
(28) A box contains 10 symmetrical balls , 5 balls are white and the rest is red , if a ball is drawn randomly , then the probability of the drawn ball is red = …………

(29) A man distributed 963 pounds among his 3 sons equally.
What is the share of each of them ?
The share of each one = ……………………… = L.E. …………

(30) ***The following table shows the number of pupils who participated in activity in one of the schools :***

The activity	Drawing	Sports	Music	Agriculture
Number of pupils	5	6	7	3

Represent these date by a broken line.



17 El-Beheira Governorate

Maths Inspection



Answer the following questions :

1 ***Choose the correct answer :***

(1) 8 400 ÷ 2 = ... (100 **or** 4 200 **or** 420)

(2) 2 061 ÷ 9 .... 2 061 × 9 (> **or** < **or** =)

(3) The number which multiplied by 3 129 the result will be 3 129 is .... (0 **or** 1 **or** 10)

(4) 236 × 4 = ... (494 **or** 499 **or** 944)

(5) Four sixths .... $\frac{1}{6} + \frac{5}{6}$ (> **or** < **or** =)

(6) A triangle of side lengths 5 cm. , 5 cm. and 7 cm. , then its perimeter = ... cm. (7 **or** 17 **or** 27)

(7) $1 - \frac{2}{7} = \frac{1}{7} + \dots\dots$ ($\frac{1}{7}$ or $\frac{2}{7}$ or $\frac{4}{7}$)

(8) ✱ $59 \times 10 = \dots\dots$ (50 or 590 or 90)

(9) $\frac{5}{8} = \frac{\dots\dots}{24}$ (13 or 14 or 15)

(10) The human temperature is measured by using the ....
(metre or thermometer or centimetre)

(11) The fraction if added to $\frac{1}{4}$ the result will be $\frac{2}{4}$ is ....
($\frac{1}{2}$ or 1 or $\frac{1}{4}$)

(12) $36 \div 6$ .... $36 \div 4$ (> or < or =)

(13) The probability of the certain event = ... (1 or half or zero)

(14) The area of the figure [figure] = ... [triangle] (8 or 6 or 3)

(15) Which of the following numbers represents an even number ?
(4 362 or 4 361 or 4 365)

(16) The probability of getting an odd number when a die is tossed once = ... ($\frac{1}{6}$ or $\frac{1}{2}$ or 1)

(17) One year and quarter year = ... months. (12 or 14 or 15)

(18) The perimeter of square = The side length × ....
(2 or 4 or 5)

(19) As tossing a metallic coin once , then the probability of appearing a head = ... ($\frac{1}{2}$ or 1 or zero)

2 ***Complete :***

(20) $(5 + 9) \div 7 = \dots\dots$

(21) The probability of impossible event = ...

(22) $\dots\dots - \frac{5}{9} = \frac{2}{9}$

(23) If $135 \times 4 = 630$, then $630 \div 4 = \dots\dots$

(24) 8 kilograms = ... grams.

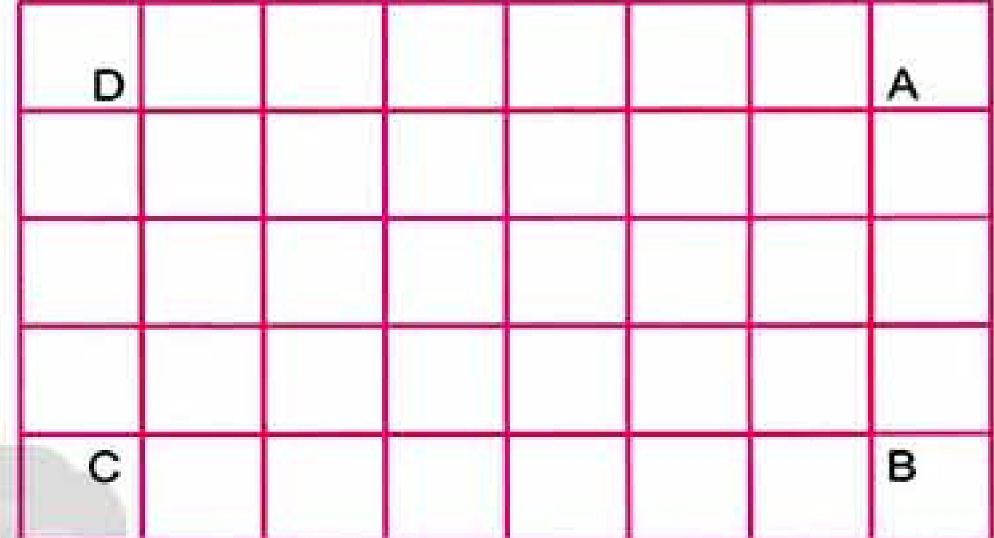
(25) ✱ $17 \times 1\,000 = \dots\dots$

(26) A bag contains 7 white balls and 3 red balls , if a ball is drawn at random , then the probability of the drawn ball is red = ...

3 Answer the following questions :

(27) Amr bought 4 jackets , if the price of each one is L.E. 375 Find what Amr paid.
What Amr paid = ... = L.E. ....

(28) ***In the opposite figure :***



ABCD is a rectangle , then find :

[a] The perimeter of the rectangle ABCD = ... units.

[b] The area of the rectangle ABCD = ... ☐

18 El-Fayoum Governorate

Maths Inspection



Answer the following questions :

1 Choose the correct answer :

(1) 103 × 5 = ... (115 *or* 515 *or* 551)

(2) 600 cm. = ... metres. (6 *or* 60 *or* 600)

(3) 189 ÷ 9 .... 189 × 9 (> *or* = *or* <)

(4) .... is an even number. (100 *or* 105 *or* 119)

(5) .... ÷ 2 = 22 (44 *or* 11 *or* 24)

(6) The normal human temperature is .... °C (38 *or* 36 *or* 37)

(7) 9 300 ÷ 3 = ... (100 *or* 3 100 *or* 310)

(8) One hour and half = ... minutes. (60 *or* 90 *or* 120)

(9) $\frac{2}{3}$ .... $\frac{1}{3}$ (> *or* = *or* <)

(10) Five sixths = ... ($\frac{6}{5}$ *or* $\frac{5}{6}$ *or* 56)

(11) The probability of appearance of 5 on the upper face of a die when its thrown = ... ($\frac{2}{6}$ *or* $\frac{1}{2}$ *or* $\frac{1}{6}$)

(12) 2 years = ... months. (24 *or* 14 *or* 60)

(13) 8 kilograms = ... grams. (800 *or* 80 *or* 8 000)

(14) It is .... that the elephant flies.
(possible *or* impossible *or* certain)

(15) The perimeter of a triangle of sides 3 cm., 4 cm., 5 cm. = ... cm. (24 *or* 12 *or* 6)

(16) 24 ÷ .... = 3 (72 *or* 27 *or* 8)

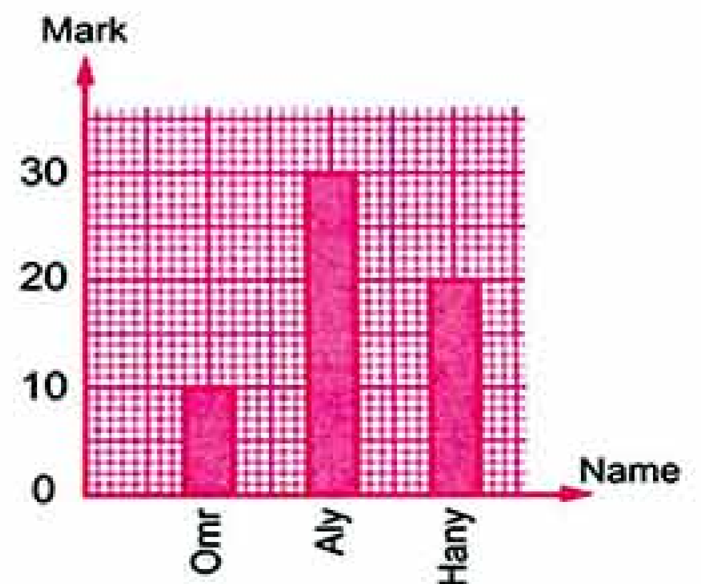
(17) ✻ 47 × 100 = ... hundreds. (4 700 *or* 470 *or* 47)

(18) $\frac{8}{9} - \frac{3}{9}$ .... $\frac{1}{9} + \frac{4}{9}$ (> *or* = *or* <)

(19) ***From the opposite graph :***

Aly got .... marks.

(20 *or* 10 *or* 30)



2 Complete each of the following :

(20) 80 × 7 = ...

(21) The odd number just after 5 is ....

(22) ✻ 567 × 10 = ...

(23) The probability of appearing a head when tossing a coin once = ...

(24) The probability of an impossible event is ....

(25) $\frac{5}{7} + \frac{1}{7}$ = ...

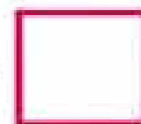
(26) $\frac{3}{5} = \frac{\cdots\cdots}{10}$

3 Answer the following :

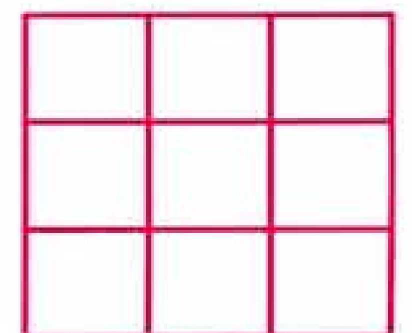
(27) 160 tourists are distributed equally on 4 buses. How many tourists are there in each bus ?

The number of tourists in each bus = ... = ... tourists.

(28) ***From the opposite figure (consider the area of the small square as a unit) , find :***

[a] The area of the square = ... 

[b] The perimeter of the square = ... units.



19 Beni Suef Governorate

Maths Inspection



Answer the following questions :

1 Choose the correct answer :

(1) 8 080 ÷ 8 = ... (1 010 or 110 or 101)

(2) 17 kilometres = ... metres. (170 or 17 000 or 1 700)

(3) $\frac{5}{5}$ .... $\frac{3}{5}$ (> or = or <)

(4) 804 ÷ .... = 201 (2 or 3 or 4)

(5) ✻ 5 × 6 × 100 .... 3 × 1 000 (< or > or =)

(6) Two years = ... months. (7 or 12 or 24)

(7) The probability of certain event = ... (2 or 0 or 1)

(8) The area of the shape [four squares in a row] equals .... [square] (1 or 2 or 4)

(9) The sun rises from the east is a .... event. (certain or possible or impossible)

(10) The even number is .... (657 or 100 or 433)

(11) The perimeter of the square of side length is 3 cm. = ... cm. (12 or 14 or 16)

(12) The day = ... hours. (24 or 12 or 16)

(13) Three fifths = ... (6 or $\frac{3}{5}$ or $\frac{6}{5}$)

(14) Which of these numbers is odd ? (10 or 5 or 8)

(15) The unit of measuring time is .... (hour or gram or metre)

(16) $1 - \frac{3}{8}$ = ... ($\frac{6}{8}$ or $\frac{5}{8}$ or $\frac{2}{8}$)

(17) The temperature degree of the normal human is .... °C (70 or 37 or 47)

(18) The fraction which represents the shaded part [triangle figure] is .... ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{4}$)

(19) The perimeter of rectangle whose length is 3 cm. and width is 2 cm. = ... cm. (5 or 10 or 6)

2 Complete each of the following :

(20) The probability of impossible event is ……………

(21) $\frac{2}{5}$ + $\frac{3}{5}$ = …………… = ……………

(22) ✱ 99 × 10 = ……………

(23) The even number which are less than 2 is ……………

(24) $\frac{2}{5}$ + …………… = $\frac{3}{5}$

(25) 5 kg. = …………… grams.

(26) The perimeter of the shape (4 cm., 2 cm., 3 cm.) = …………… cm.

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3 Answer the following questions :

(27) A man distributed 842 pounds between his 2 sons equally.

What is the share of each of them ?

The share of each of them = …………… ÷ …………… = …………… pounds.

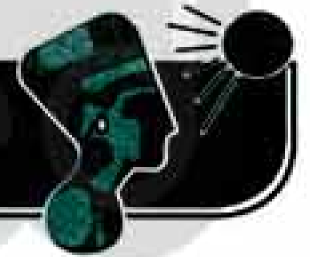
(28) ***From the opposite figure , complete :***

[a] The perimeter of the figure = …………… units.

[b] The area of the figure = …………… □

20 El-Menia Governorate

El-Menia Directorate of Education
Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) $\frac{3}{7}$ + $\frac{1}{7}$ = …………… ($\frac{4}{7}$ or $\frac{2}{7}$ or $\frac{4}{14}$ or $\frac{3}{49}$)

(2) ✱ 44 × 10 = …………… (4 040 or 400 or 440 or 4 400)

(3) $\frac{6}{9}$ − $\frac{4}{9}$ = $\frac{\dots}{9}$ (1 or 2 or 3 or 4)

(4) The probability of the sure event = …………… (1 or 2 or 0 or 3)

(5) Two weeks = …………… days. (7 or 14 or 21 or 35)

(6) 246 ÷ 3 = …………… (28 or 82 or 35 or 24)

(7) …………… is an odd number. (24 or 34 or 86 or 11)

(8) The sun rises from the east is a .... event.
(sure **or** possible **or** impossible)

(9) $\frac{3}{7}$ ☐ $\frac{2}{7}$ (> **or** < **or** = **or** otherwise)

(10) The normal body temperature is .... C°
(37 **or** 58 **or** 62 **or** 24)

(11) The area of ⊞ = ... ☐ (4 **or** 5 **or** 6 **or** 7)

(12) ✻ .... × 100 = 5 700 (5 **or** 7 **or** 57 **or** 75)

(13) 3 kg. = ... grams. (3 000 **or** 300 **or** 30 **or** 3)

(14) .... ÷ 8 = 9 (63 **or** 72 **or** 24 **or** 12)

(15) 356 × 4 = ... (1 464 **or** 4 214 **or** 1 424 **or** 4 642)

(16) Four fifths = ... ($\frac{3}{5}$ **or** $\frac{5}{4}$ **or** $\frac{6}{7}$ **or** $\frac{4}{5}$)

(17) $\frac{5}{7} = \frac{\cdots\cdots}{21}$ (10 **or** 15 **or** 20 **or** 25)

(18) One day = ... hours. (16 **or** 20 **or** 24 **or** 50)

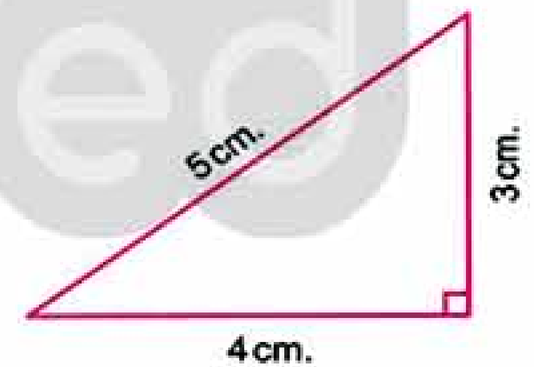
(19) What is the time ?
It is .... o'clock.



(12 **or** 6 **or** 3 **or** 5)

2 ***Complete :***

(1) The perimeter of the triangle
= .... cm.



(2) $1 - \frac{7}{8} =$ ....

(3) 8 000 grams = ... kg.

(4) 2 m. = ... cm.

(5) The probability of the impossible event = ...

(6) 2 424 ÷ 2 = ...

(7) 36 ÷ 9 = ...

3 ***Answer the following :***

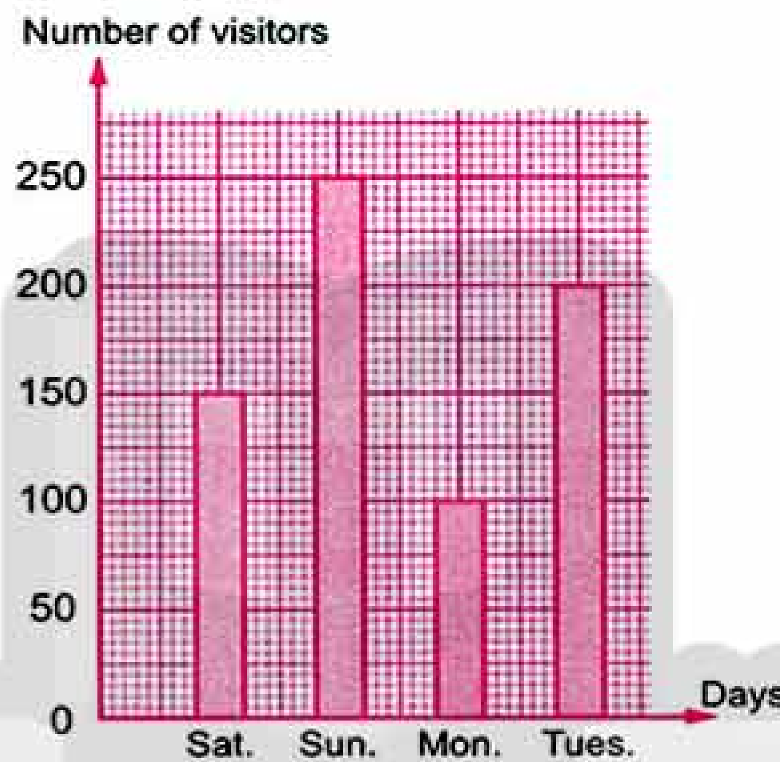
(1) ***Arrange in an ascending order :***

$\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{8}$ and $\frac{5}{8}$

The order is : .... , ... , ... and ....

(2) *The following graph shows the number of visitors to the zoo , then complete the table :*

Days	Sat.	Sun.	Mon.	Tues.
Number of visitors	…………	…………	…………	…………



21 Assiut Governorate

Assiut Administration of Education
Maths Inspection



Answer the following questions :

1 *Choose the correct answer :*

(1) The probability of certain event is …………… ($\frac{1}{2}$ or 1 or 0)

(2) $\frac{2}{9}$ ☐ $\frac{5}{9}$ (< or > or =)

(3) 208 × 7 = …………… (1 654 or 1 456 or 1 546)

(4) It is …………… to rain gold. (impossible or possible or certain)

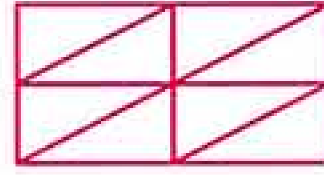
(5) One year and two months = …………… months. (12 or 14 or 24)

(6) 3 kilograms = …………… grams. (30 or 300 or 3 000)

(7) The perimeter of the shape [triangle: 4 cm., 2 cm., 3 cm.] = …………… cm. (9 or 10 or 24)

(8) 936 ÷ 3 = …………… (312 or 2 808 or 302)

(9) Which of the following numbers represents an odd number ? (5 361 or 5 362 or 5 366)

(10) The area of the opposite figure  = ...

(4 ***or*** 8 ***or*** 12)

(11) The human temperature is measured by using the ....

(metre ***or*** thermometer ***or*** centimetre)

(12) The probability of appearing a head as throwing a metallic coin once = ... (0 ***or*** 1 ***or*** $\frac{1}{2}$)

(13) The fraction added to $\frac{4}{6}$ the result will be one is ....

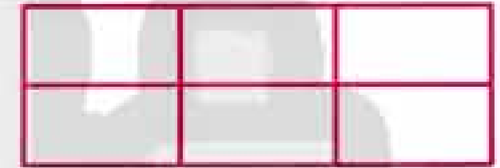
($\frac{4}{6}$ ***or*** $\frac{2}{6}$ ***or*** $\frac{4}{4}$)

(14) Any odd number + 1 = ... number. (odd ***or*** even ***or*** prime)

(15) The perimeter of the square whose side length is 3 cm. = ... cm.

(14 ***or*** 12 ***or*** 16)

(16) ***In the opposite figure :***



The area = ... (8 ***or*** 9 ***or*** 6)

(17) ✱ 63 × 100 = ... (630 ***or*** 6 300 ***or*** 63 000)

(18) $\frac{1}{7} + \frac{2}{7}$ = ... ($\frac{3}{7}$ ***or*** $\frac{4}{7}$ ***or*** $\frac{5}{7}$)

(19) It is .... (6 o'clock ***or*** 5 o'clock ***or*** 7 o'clock)

---

2 *Complete :*

(1) 12 months = ... year.

(2) $1 - \frac{3}{7}$ = ...

(3) 18 ÷ .... = 9

(4) The probability of the impossible event = ...

(5) The day = ... hours.

(6) The probability of appearing of an odd number when tossing a fair die once is ....

(7) ✱ 4 × 7 × 1 000 = ...

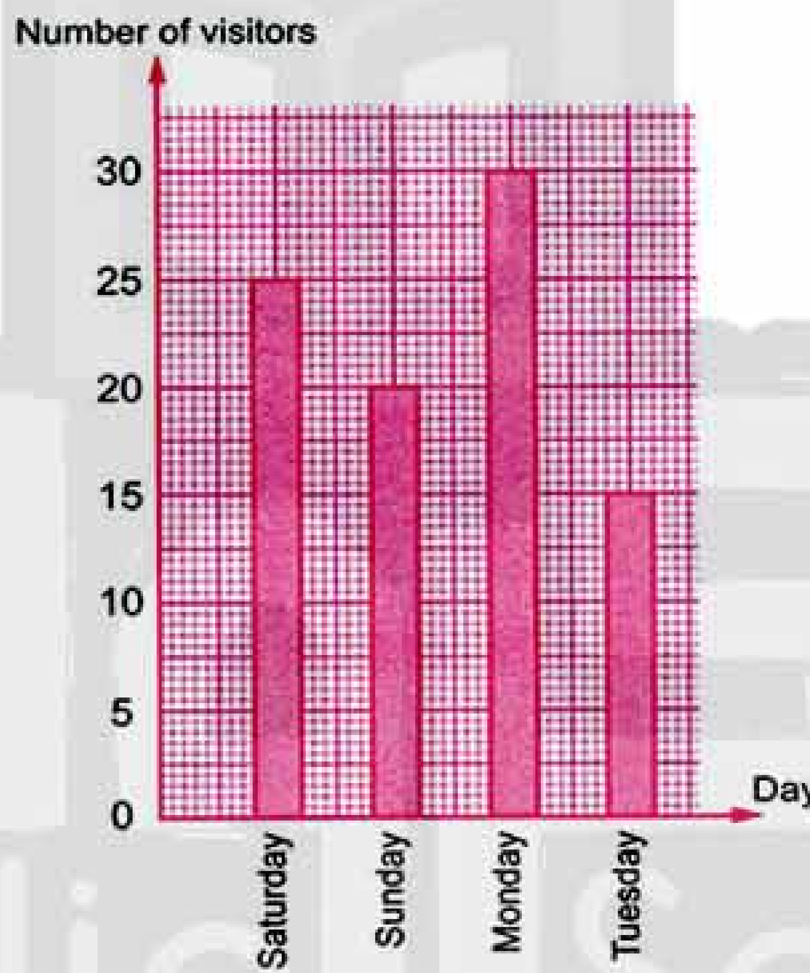
3 Answer the following :

(1) A father wants to distribute 183 pieces of chocolate among his 3 sons. What is the share of each of the 3 sons ?

The share of each son = ... = ... pieces.

(2) ***The following graph represents number of the visitors to the zoo during 4 days in the week , form the graph complete the table :***

Day	Saturday	Sunday	Monday	Tuesday
Number of visitors	....	....	....	....



22 Souhag Governorate

Souhag Educational Administration
City Schools



Answer the following questions :

1 Choose the correct answer :

(1) Five sixths = ... ($\frac{5}{6}$ or $\frac{6}{5}$ or $\frac{2}{6}$)

(2) Which of the following numbers represents an odd number ?

(5 361 or 5 362 or 5 366)

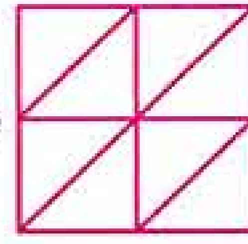
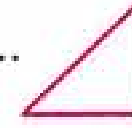
(3) The normal human's temperature = ... C (73° or 37° or 30°)

(4) The probability of the certain event is .... ($\frac{1}{2}$ or zero or 1)

(5) $\frac{1}{2} + \frac{1}{2}$ ☐ $\frac{5}{5}$ (> or = or <)

(6) Which of the following numbers is not even number ?

(264 **or** 407 **or** 610)

(7) The area of the opposite figure  = ... 

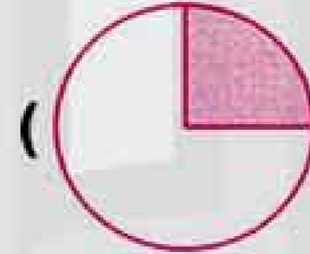
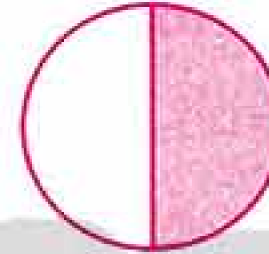
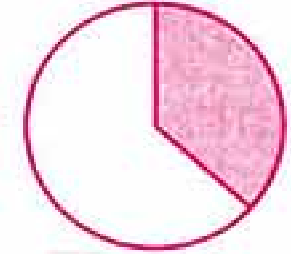
(4 **or** 8 **or** 12)

(8) 1 kilogram = ... grams. (250 **or** 1 000 **or** 450)

(9) 804 ÷ 4 = ... (12 **or** 201 **or** 4)

(10) The probability the impossible event = ... (1 **or** half **or** zero)

(11) Which of the following fractions represents $\frac{1}{4}$?

( **or**  **or** )

(12) 1 hour = ... minutes. (30 **or** 60 **or** 10)

(13) $\frac{3}{6} = \frac{\cdots\cdots}{2}$ (3 **or** 4 **or** 1)

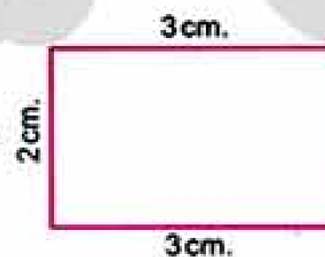
(14) The number of months of the year = ... months.

(5 **or** 12 **or** 10)

(15) $\frac{1}{7} + \frac{2}{7} =$ .... (1 **or** $\frac{3}{7}$ **or** $\frac{1}{7}$)

(16) The unit of measuring weights is ....

(hour **or** kilogram **or** minute)

(17) The perimeter of the figure 

= .... cm.

(6 **or** 9 **or** 10)

(18) ✱ 27 × 10 = ... (270 **or** 2 700 **or** 2 070)

(19) 2 000 grams = ... kilograms. (3 **or** 2 **or** 4)

2 ***Complete the following :***

(20) 4 , 40 , 400 , ... (in the same pattern)

(21) $\frac{7}{9} - \frac{5}{9} = \frac{\cdots\cdots}{9}$

(22) The fraction which represents the shaded part = $\frac{\cdots\cdots}{\cdots\cdots}$

(23) 236 × 4 = ...

(24) ✻ 84 × 100 = 100 × .... = ...

(25) The ascending order of : $\frac{1}{8}$, $\frac{7}{8}$, $\frac{5}{8}$ and $\frac{3}{8}$

is .... , ... , ... and ....

(26) 4 metres = ... cm.

3 *Answer the following :*

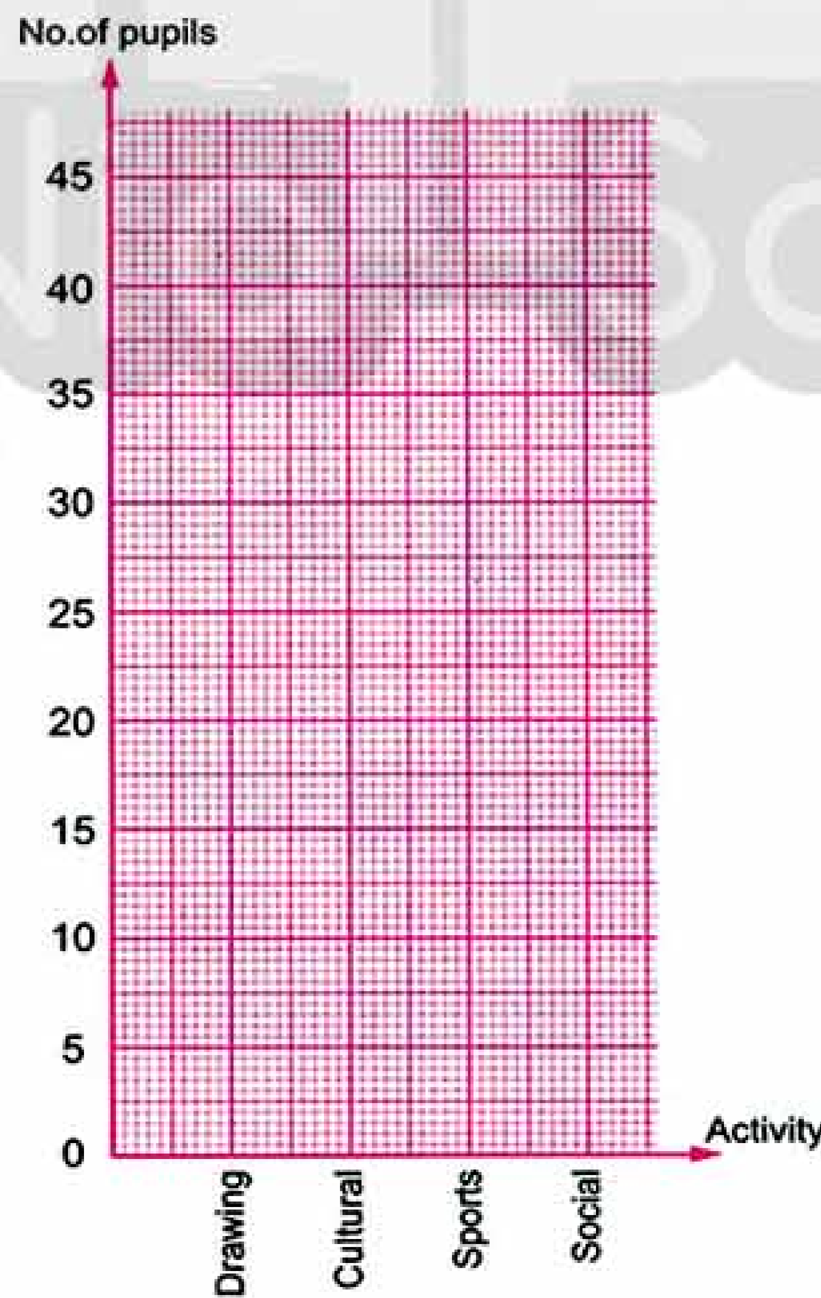
(27) Ahmed wants to buy 135 notes , if the price of one note is 8 pounds , then find the total money of what Ahmed pay requires.

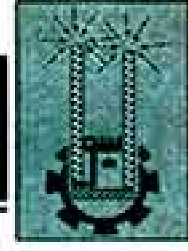
The total money = ... × .... = ... pounds.

(28) ***The following table shows the number of pupils who participated in school activity clubs in one of the schools :***

Activity	Drawing	Cultural	Sports	Social
No. of pupils	25	15	35	10

Represent these data by a broken line.





23 Aswan Governorate

Aswan Directorate of Education
Eng. M.M.Yakoub L.Schools

Answer the following questions :

1 *Choose the correct answer :*

(1) The normal human's temperature is .... C (70° or 30° or 37°)

(2) $\frac{1}{7} + \frac{2}{7}$ = ... (1 or $\frac{3}{7}$ or $\frac{1}{7}$)

(3) The probability of the impossible event = ... (1 or $\frac{1}{2}$ or zero)

(4) The perimeter of square whose side length is 1 cm. = ... cm.
(1 or 4 or $\frac{1}{4}$)

(5) The suitable unit for measuring the length of your class is the ....
(metre or centimetre or kilometre)

(6) The fraction which represents the shaded part is .... ($\frac{2}{8}$ or $\frac{1}{2}$ or $\frac{2}{6}$)

(7) Telling the time ....
(6 o'clock or 5 minutes to 6 or 5 minutes past 6)

(8) The area of figure = ... (3 or 4 or 6)

(9) The probability of the certain event = ... (1 or $\frac{1}{2}$ or zero)

(10) The area of figure = ... (5 or 10 or 2)

(11) A father wants to distribute 183 pieces of chocolate among his 3 sons , then the share of each son = ... piece. (16 or 61 or 26)

(12) 2 years and 1 month = ... months. (12 or 24 or 25)

(13) The suitable unit for measuring the length of the pencil is ....
(metre or centimetre or kilometre)

(14) ✱ .... × 100 = 2 900 (29 or 209 or 290)

(15) The side length of square its perimeter is 20 cm. = ... cm.
(5 or 80 or 10)

(16) The perimeter of triangle whose side lengths are 3 cm. , 4 cm. and 6 cm. = ... cm. (13 ***or*** 14 ***or*** 15)

(17) ✱ 19 × 10 = ... (1 900 ***or*** 190 ***or*** 1 090)

(18) Appearing a tail when tossing a coin once is .... event.

(certain ***or*** possible ***or*** impossible)

(19) Which of the following numbers is not an even number ?

(268 ***or*** 407 ***or*** 610)

2 *Complete :*

(1) 236 × 4 = ...

(2) 5 kilograms + 275 grams = ... grams.

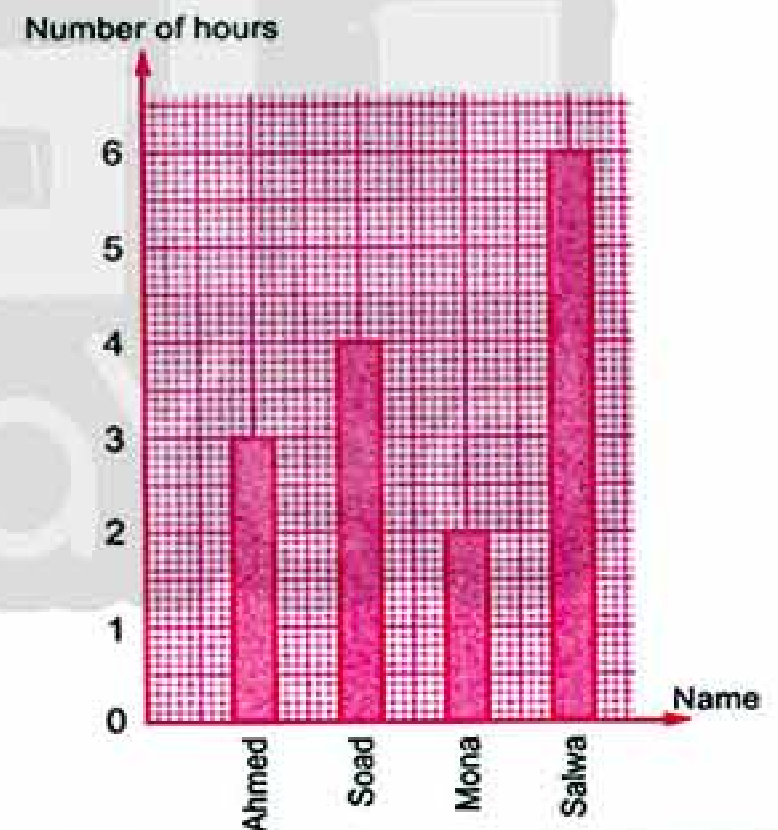
(3) 6 , 12 , 24 , ... (in the same pattern)

(4) $\frac{12}{27} = \frac{4}{\dots\dots}$

(5) Four fifths = ...

(6) As throwing a metallic coin once and observing the upper face , the probability of appearing a head = ...

(7) The opposite figure shows the number of hours of studying for a group of pupils , study the figure , then the name of the pupil who study the greatest numbers of hours is ....



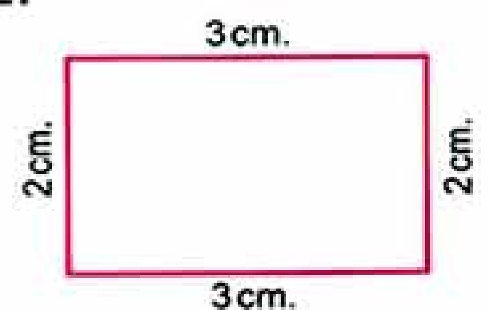
3 *Answer the follwoing :*

(1) A man distributed 963 pounds among his 3 sons equally.

What is the share of each of them ?

The share of each one = ... ÷ .... = L.E. ....

(2) ***Find the perimeter of the opposite figure :***



The perimeter = ... cm.

24 South Sinai Governorate

Tur Sinai Educational Zone
Maths Supervision

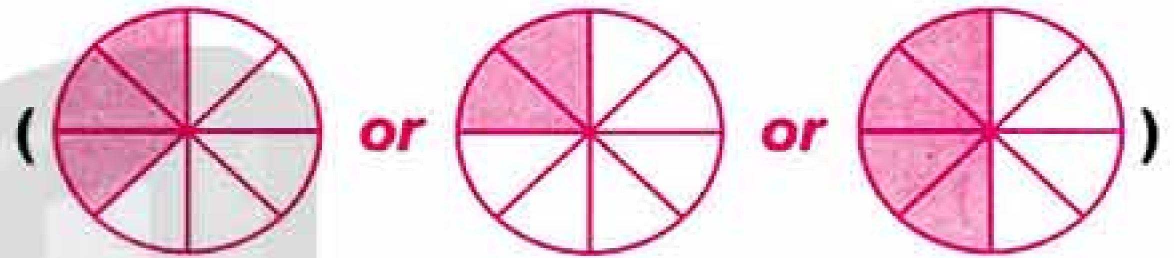


Answer the following questions from the given answer :

1 *Choose the correct answer :*

(1) Five sixths .... $\frac{6}{6}$ (> **or** < **or** =)

(2) Which of the following shaded fractions represents $\frac{1}{4}$?



(3) The suitable unit of measuring length of the pencil is ....
(metre **or** centimetre **or** kilometre)

(4) The temperature of normal human body = ... C
(70° **or** 30° **or** 37°)

(5) The fraction that if added to $\frac{4}{6}$ the result is one is ....
($\frac{4}{6}$ **or** $\frac{2}{6}$ **or** $\frac{4}{4}$)

(6) The probability of appearing an odd number when a dice is thrown once is .... (1 **or** $\frac{1}{2}$ **or** zero)

(7) Two years and a month = ... months. (12 **or** 24 **or** 25)

(8) $\frac{4}{6} - \frac{1}{6}$ = ... ($\frac{1}{6}$ **or** $\frac{3}{6}$ **or** $\frac{6}{6}$)

(9) ✱ 76 × 10 = ... (760 **or** 7 060 **or** 670)

(10) $\frac{1}{2} + \frac{1}{2}$ ☐ $\frac{5}{5}$ (> **or** = **or** <)

(11) The probability of certain event = ... ($\frac{1}{2}$ **or** zero **or** 1)

(12) ✱ 59 × 1 000 = ... (590 **or** 5 900 **or** 59 000)

(13) The temperature is measured by using ....
(ruler **or** thermometer **or** protractor)

(14) The length of the notebook is ....
(25 cm. **or** 1 metre **or** 1 kilometre)

(15) The weight of the ring is ....

(4 grams *or* 4 kilograms *or* kilometre)

(16) The unit of measuring time is ....

(an hour *or* a kilogram *or* a kilometre)

(17) The period time is measured by ....

(degrees *or* kilogram *or* minutes)

(18) Two hours and quarter of an hour = ... minutes.

(115 *or* 135 *or* 215)

(19) $\frac{15}{25} = \frac{\dots\dots}{5}$ (3 *or* 5 *or* 7)

2 *Complete :*

(1) 5 kilograms + 1 275 grams = ... grams.

(2) The probability of impossible event = ...

(3) 75 minutes = one hour and a .... of an hour.

(4) The sun rises from the east is certain ....

(5) $\frac{35}{49} = \frac{5}{\dots\dots}$

(6) 3 kilograms and 30 grams = ... grams.

(7) Quarter = $\frac{\dots\dots}{8}$

3 *Answer the following :*

(1) ***Find the result :*** $1 - \frac{5}{8} =$ ....

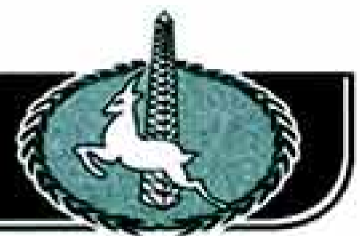
(2) ***Arrange the following fractions in an ascending order :***

$\frac{1}{2}$, $\frac{1}{5}$, $\frac{1}{4}$, $\frac{1}{10}$, $\frac{1}{3}$ and $\frac{1}{8}$

The order is : .... , ... , ... , ... , ... and ....

25 Matrouh Governorate

Directorate of Educational Zone
Maths Inspection



Answer the following questions :

1 *Choose the correct answer :*

(1) $\frac{2}{5} + \frac{3}{5} =$ .... ($\frac{1}{5}$ *or* 1 *or* $\frac{4}{5}$)

(2) $2 = \frac{6}{\dots\dots}$ (3 *or* 6 *or* 2)

(3) Two sevenths + 3 sevenths = ... ($\frac{7}{5}$ or $\frac{5}{7}$ or $\frac{1}{7}$)

(4) $\frac{5}{7}$ ☐ $\frac{6}{7}$ (> or = or <)

(5) $\frac{15}{25} = \frac{\cdots\cdots}{5}$ (3 or 6 or 2)

(6) ✱ 6 × 1 000 ☐ 30 × 100 (> or = or <)

(7) $\frac{3}{4}$ ☐ $\frac{1}{4}$ (> or = or <)

(8) Four fifths ☐ $\frac{4}{6}$ (> or = or <)

(9) $\frac{7}{9}$ ☐ $\frac{5}{9} - \frac{2}{9}$ (> or = or <)

(10) 1 ☐ $\frac{6}{6}$ (> or = or <)

(11) The perimeter of the square whose side length is 1 cm. = ... cm.
(1 or 4 or $\frac{1}{4}$)

(12) The perimeter of the triangle whose side lengths are 5 cm. , 7 cm. and 10 cm. = ... cm. (20 or 22 or 24)

(13) The perimeter of the rectangle whose length is 8 cm. and its width is 4 cm. = ... cm. (24 or 22 or 12)

(14) The sun rises from the east is a .... event.
(certain or possible or impossible)

(15) The probability of the number 8 when tossing a die once = ...
($\frac{1}{8}$ or 1 or zero)

(16) Two days and two hours = ... hours. (40 or 50 or 96)

(17) The normal human temperature = ... C (73° or 37° or 30°)

(18) The suitable unit for measuring the length of your class is the ....
(metre or centimetre or kilometre)

(19) The unit of measuring weights is .... (hour or kg. or km.)

2 Complete :

(1) ✱ 2 × 7 × .... = 14 × 1 000 = ...

(2) $1 - \frac{3}{4}$ = ...

(3) 6 , 12 , 24 , ... , ... (in the same pattern)

(4) 2 000 grams = ... kilograms.

(5) 75 metres = 75 × .... = ... cm.

(6) The probability of the impossible event = ...

(7) One hour and 25 minutes = ... minutes.

3 ***Answer the following :***

(1) Find the perimeter of a square whose side length is 7 cm.

The perimeter of the square = ... × .... = ... cm.

(2) Calculate the perimeter of a rectangle of length 7 cm. and width 5 cm.

The perimeter of the rectangle = ... = ... cm.

Answers

of the main book



1 2 9 7 5 8

UNIT ONE

Exercise 1

1 [a] 50 [b] 60 [c] 240 [d] 370
[e] 100 [f] 0 [g] 150 [h] 90

2 [a] 3 [b] 9 [c] 12 [d] 18 [e] 95
[f] 6 [g] 16 [h] 46 [i] 33 [j] 10

3 [a]

1	2	3	4	5	6	7	8	9	10	×10
10	20	30	40	50	60	70	80	90	100	

[b]

2	4	6	5	9	×10
20	40	60	50	90	

[c]

14	25	12	112	123	×10
140	250	120	1 120	1 230	

[d]

10	100	200	0	1 000	×10
100	1 000	2 000	0	10 000	

4 [a] 7 × 10 = 70 = 7 tens
[b] 5 × 10 = 50 = 5 tens
[c] 3 × 10 = 30 = 3 tens
[d] 4 × 10 = 40 = 4 tens
[e] 125 × 10 = 1 250 = 125 tens
[f] 275 × 10 = 2 750 = 275 tens

5 [a] 5 × 10 = 5 tens = 2 tens + 3 tens
= 20 + 30 = 50
[b] 8 × 10 = 8 tens = 4 tens + 4 tens
= 40 + 40 = 80
[c] 6 × 10 = 6 tens = 1 ten + 5 tens
= 10 + 50 = 60
[d] 9 × 10 = 9 tens = 5 tens + 4 tens
= 50 + 40 = 90

6 [a] 8 × 10 = 10 × 8 = 80
[b] 10 × 12 = 12 × 10 = 120
[c] 9 × 10 = 10 × 9 = 90
[d] 53 × 10 = 10 × 53 = 530
[e] 10 × 30 = 30 × 10 = 300
[f] 5 × 7 × 10 = 35 × 10 = 350
[g] 10 × 2 × 3 = 10 × 6 = 60
[h] 10 × 8 = 10 × 2 × 4 = 80
[i] 8 × 6 × 10 = 48 × 10 = 480
[j] 2 × 6 × 10 = 12 × 10 = 120

7 [a] < [b] = [c] >
[d] < [e] < [f] >
[g] > [h] <

8 [a] 9 [b] 10 [c] 11
[d] 26 [e] 81 [f] 51
[g] 8 [h] 9 [i] 3
[j] 3

9 [a] 90 [b] 2 [c] 60
[d] 10 [e] 7 [f] 1

10 [a] 60 × 2 = (10 × 6) × 2 = 10 × (6 × 2)
= 10 × 12 = 120
[b] 40 × 8 = (10 × 4) × 8 = 10 × (4 × 8)
= 10 × 32 = 320

11 [a] 80 [b] 150 [c] 480 [d] 350
[e] 60 [f] 630 [g] 240 [h] 400

Word problems

[a] He should pay = 10 × 2 = 20 pounds.
[b] The price of 36 metres = 36 × 10 = L.E. 360
[c] She had = 65 × 10 = 650 stamps.
[d] There are = 7 × 10 = 70 days.
[e] The price of notebooks = 10 × 3 = 30 pounds.
The price of books = 2 × 10 = 20 pounds.
What she paid = 30 + 20 = 50 pounds.
[f] The price of the toys = 3 × 20 = L.E. 60
The left money = 100 – 60 = L.E. 40
[g] There are = (7 × 6) × 10 = 42 × 10 = 420 oranges.

Think and answer

(1) (7 ⊞ 3) ⊠ 8 = 80
(2) (3 ⊠ 10) ⊞ 4 = 34
(3) (9 ⊟ 7) ⊠ 10 = 20
(4) (10 ⊠ 5) ⊟ 7 = 43
(5) (4 ⊞ 9) ⊠ 10 = 130
(6) 9 ⊠ (2 ⊞ 8) = 90

Exercise 2

1 [a] 300 [b] 500 [c] 3 500
[d] 1 000 [e] 9 000 [f] 0

2 [a] 9 [b] 5 [c] 12 [d] 18
[e] 100 [f] 100 [g] 10 [h] 100
[i] 232 [j] 100

3 [a]

3	5	7	9	4	×100
300	500	700	900	400	

[b]

18	36	15	432	825	×100
1 800	3 600	1 500	43 200	82 500	

[c]

10	100	300	900	0	×100
1 000	10 000	30 000	90 000	0	

4 [a] 8 × 100 = **800** = 8 hundreds
[b] 25 × 100 = **2 500** = 25 hundreds
[c] **4** × 100 = 400 = **4** hundreds
[d] **5** × 100 = **500** = 5 hundreds
[e] **10** × 100 = **1 000** = 10 hundreds
[f] **30** × 100 = **3 000** = 30 hundreds

5 [a] 5 × 100 = **5** hundreds = 3 hundreds + 2 hundreds = **300** + **200** = **500**
[b] 7 × 100 = **7** hundreds = **3** hundreds + 4 hundreds = **300** + **400** = **700**
[c] 8 × 100 = 8 hundreds = 7 hundreds + 1 hundred = **700** + **100** = **800**
[d] **6** × 100 = **6** hundreds = 3 hundreds + 3 hundreds = **300** + **300** = **600**

6 [a] 6 × 100 = 100 × **6** = **600**
[b] 100 × 28 = **28** × 100 = **2 800**
[c] **7** × 100 = 100 × **7** = 700
[d] **74** × 100 = 100 × **74** = 7 400
[e] 100 × **70** = **70** × 100 = 7 000
[f] 2 × 4 × 100 = **8** × 100 = **800**
[g] 6 × 8 × 100 = **48** × 100 = **4 800**
[h] 100 × 5 × 7 = 100 × **35** = **3 500**
[i] 9 × 3 × 100 = **27** × 100 = **2 700**
[j] 2 × 4 × 100 = **800**

7 [a] 7 metres = **700** centimetres.
because : 7 × 100 = **700**
[b] 9 metres = **900** centimetres.
because : **9** × 100 = **900**
[c] 25 metres = **2 500** centimetres.
because : **25** × 100 = **2 500**
[d] 57 metres = **5 700** cm.
because : **57** × 100 = **5 700**
[e] 4 [f] 15 [g] 10 [h] 1 505

8 [a] 800 [b] 400 [c] 9
[d] 25 [e] 31 200 [f] 100

9 [a] 5 600 [b] 3 [c] 28
[d] 400 [e] 8 500 [f] 35

10 [a] < [b] > [c] < [d] >
[e] > [f] > [g] = [h] >
[i] > [j] < [k] > [l] <
[m] = [n] > [o] > [p] <

11 [a] 5 [b] 10 [c] 11
[d] 36 [e] 51 [f] 71

12 [a] 800 [b] 4 [c] 4
[d] 100 [e] 3 [f] 1

13 [a] 20 × 90 = **100** × **18** = **1 800**
[b] 50 × 80 = **100** × **40** = **4 000**
[c] 40 × 60 = **100** × **24** = **2 400**
[d] 70 × 30 = **100** × **21** = **2 100**
[e] 50 × 30 = **100** × **15** = **1 500**
[f] 90 × 40 = **100** × **36** = **3 600**

14
(6 × 30) + (6 × 70) → 6 × 100
(4 × 10) + (4 × 90) → 4 hundreds
(6 × 100) + (100 × 6) → 3 × 100
7 hundreds − 40 tens → 3×4×100
(9 × 100) + (1 × 100) → 10 × 100

15 [a] 400 × 3 = **(100 × 4)** × 3
= 100 × **(4 × 3)** = 100 × **12** = **1 200**
[b] 300 × 7 = **(100 × 3)** × 7
= 100 × **(3 × 7)** = 100 × **21** = **2 100**
[c] 800 × 2 = **(100 × 8)** × 2
= **100** × **(8 × 2)** = **100** × **16** = **1 600**
[d] 9 × 500 = **9** × **(5 × 100)**
= **(9 × 5)** × **100** = **45** × **100** = **4 500**

16 [a] 900 [b] 4 800 [c] 2 800
[d] 4 500 [e] 2 400 [f] 2 700
[g] 1 500 [h] 3 600

Word problems

[a] There are = 9 × 100 = 900 seats.
[b] The price of 15 blenders = 15 × 100 = L.E. 1 500
[c] There are = 20 × 100 = 2 000 grams.
[d] The price of 9 sets = 9 × 200 = L.E. 1 800
[e] What he saves in 8 months = **800** pounds.
because 8 × 100 = **800**
What he saves in 10 months = **1 000** pounds.
because 10 × 100 = **1 000**
What he saves in a whole year = **1 200** pounds.
because **12** × **100** = **1 200**
[f] The salary in half of a year = 6 × 700
= L.E. 4 200
The salary in a whole year = 12 × 700
= L.E. 8 400
[g] There are = 3 × 7 × 100 = 2 100 books.

Think and answer

True
For example : 3 × 10 = 30 and 30 × 10 = 300 ,
3 × 100 = 300

Exercise 3

1 [a] 3 000 [b] 6 000 [c] 45 000
[d] 78 000 [e] 10 000 [f] 70 000

2 [a] 8 [b] 25 [c] 71
[d] 10 [e] 0 [f] 50

3 [a]

2	4	5	8	9	×1 000
2 000	4 000	5 000	8 000	9 000	

[b]

14	28	32	55	64	×1 000
14 000	28 000	32 000	55 000	64 000	

[c]

25	40	30	1	0	×1 000
25 000	40 000	30 000	1 000	0	

4 [a] 3 × 1 000 = **3 000** = 3 thousands
[b] 15 × 1 000 = **15 000** = **15** thousands
[c] **5** × 1 000 = 5 000 = **5** thousands
[d] **7** × 1 000 = **7 000** = 7 thousands
[e] **10** × 1 000 = **10 000** = 10 thousands
[f] 1 000 × **27** = **27 000** = 27 thousands

5 [a] 6 × 1 000 = **6** thousands
= 4 thousands + **2** thousands
= **4 000** + **2 000** = **6 000**
[b] **9** × 1 000 = 9 thousands
= **3** thousands + **6** thousands
= **3 000** + **6 000** = **9 000**
[c] 3 × 1 000 = 3 thousands
= 2 thousands + **1** thousand
= **2 000** + **1 000** = **3 000**
[d] **8** × 1 000 = 8 thousands
= 4 thousands + 4 thousands
= **4 000** + **4 000** = 8 000

6 [a] 7 × 1 000 = 1 000 × **7** = **7 000**
[b] **5** × 1 000 = 1 000 × **5** = **5 000**
[c] **9** × 1 000 = 1 000 × **9** = 9 000
[d] **18** × 1 000 = 1 000 × **18** = 18 000
[e] 2 × 4 × 1 000 = **8** × 1 000 = **8 000**
[f] 5 × 7 × 1 000 = **35** × 1 000 = **35 000**
[g] 1 000 × 4 × 3 = 1 000 × **12** = **12 000**
[h] 2 × 2 × 1 000 = **4 000**
[i] 1 000 × 3 × 6 = **18 000**
[j] 7 × 9 × 1 000 = **63 000**
[k] 6 × 6 × 1 000 = **36 000**
[l] 2 × **5** × 1 000 = 1 000 × **10** = 10 000
[m] 3 × 2 × 1 000 = **6** × 1 000 = 6 000
[n] 7 × **8** × 1 000 = 1 000 × **56** = 56 000
[o] **6** × **4** × 1 000 = 24 000
"There are other solutions"

7 [a] 7 000 [b] 2 [c] 4
[d] 1 000 [e] 7 [f] 11

8 [a] 6 000 [b] Four thousands
[c] 8 000 [d] 0 [e] 2 × 1 000
[f] 8 × 1 000 [g] 700

9

Number	× 10	× 100	× 1 000
8	80	800	8 000
7	70	700	7 000
12	120	1 200	12 000
25	250	2 500	25 000
90	900	9 000	90 000

10 [a] 2 000 × 8 = (1 000 × 2) × 8
= 1 000 × (2 × 8)
= 1 000 × 16 = 16 000

[b] 7 000 × 5 = (1 000 × 7) × 5
= 1 000 × (7 × 5)
= 1 000 × 35 = 35 000

[c] 6 000 × 4 = (1 000 × 6) × 4
= 1 000 × (6 × 4)
= 1 000 × 24 = 24 000

[d] 7 × 3 × 1 000 = 21 × 1 000

11 [a] 24 000 [b] 35 000 [c] 12 000
[d] 12 000 [e] 15 000 [f] 16 000
[g] 60 000 [h] 80 000

12 [a] 300 × 40 = 1 000 × 12 = 12 000
[b] 8 × 500 = 4 × 1 000 = 4 000
[c] 6 × 2 000 = 12 × 1 000 = 12 000
[d] 100 × 170 = 1 000 × 17 = 17 000
[e] 5 200 × 10 = 52 × 1 000 = 52 000
[f] 70 × 100 = 7 × 1 000 = 7 000

13 [a] < [b] < [c] > [d] =
[e] = [f] = [g] < [h] =

14 [a] 100 × 60 = 10 × 600
= 1 000 × 6 = 6 000
[b] 20 × 600 = 1 000 × 3 × 4
[c] 30 × 600 = 1 000 × 2 × 9
[d] 40 × 500 = 1 000 × 2 × 10

Word problems

[a] The price of 6 sets = 6 × 1 000 = L.E. 6 000
[b] The number of visitors in a week
= 7 × 1 000 = 7 000 visitors.
[c] The number of lines = 42 × 1 000 = 42 000 lines.
[d] The price of the bicycle = 25 × 1 000
= 25 000 piastres.
[e] He paid = 1 000 × 14 = 14 000 pounds.
[f] ① The profit in six weeks = 6 × 1 000
= 6 000 pounds.
② The profit in eight weeks = 8 × 1 000
= 8 000 pounds.
③ The profit in twenty weeks = 20 × 1 000
= 20 000 pounds.
[g] The price of TV sets = 10 × 2 000 = L.E. 20 000
The price of radio sets = 5 × 100 = L.E. 500
The price of all sets = 20 000 + 500
= L.E. 20 500
[h] The salary in 2 years = 1 000 × (2 × 12)
= 1 000 × 24 = L.E. 24 000

Think and answer

True
For example : 2 × 10 = 20 and 20 × 100 = 2 000,
2 × 1 000 = 2 000

Exercise 4

1 [a] 168 [b] 212 [c] 432
[d] 336 [e] 216 [f] 944
[g] 2 088 [h] 3 175 [i] 768
[j] 2 844 [k] 4 468 [l] 18 702
[m] 21 956 [n] 60 687 [o] 11 735
[p] 14 736 [q] 21 888

2 [a] 215 [b] 224 [c] 304
[d] 560 [e] 1 716 [f] 608
[g] 3 213 [h] 3 885 [i] 1 902
[j] 4 563 [k] 3 252 [l] 5 243
[m] 3 036 [n] 39 005 [o] 24 020
[p] 15 827 [q] 20 368 [r] 15 010
[s] 19 899 [t] 22 712 [u] 6 048
[v] 90 776

3 [a] True. [b] True. [c] False.
[d] False. [e] True. [f] False.
[g] True. [h] Fasle. [i] True.
[j] False.

4 [a] 8 , 16 , 32 , 64 , 128 , 256
[b] 3 , 9 , 27 , 81 , 243 , 729
[c] 5 , 10 , 15 , 20 , 25 , 30 , 35 , 40
[d] 6 , 36 , 216 , 1 296 , 7 776
[e] 7 , 14 , 21 , 28 , 35 , 42
[f] 5 , 25 , 125 , 625 , 3 125 , 15 625

5 [a] 204 [b] 728 [c] 300
[d] 228 [e] 5 288 [f] 6

6 [a] < [b] > [c] <
[d] > [e] = [f] >
[g] > [h] = [i] >
[j] > [k] <

7 [a] 54 × 6 = 324 , 28 × 9 = 252 ,
71 × 7 = 497 , 45 × 5 = 225
The order is : 225 , 252 , 324 and 497
[b] 125 × 2 = 250 , 143 × 4 = 572 ,
162 × 3 = 486 , 107 × 5 = 535
The order is : 250 , 486 , 535 and 572
[c] 2 134 × 5 = 10 670 , 6 041 × 2 = 12 082
3 812 × 6 = 22 872 , 1 510 × 9 = 13 590
The order is : 10 670 , 12 082 , 13 590
and 22 872

8

2 600×3	2×3×29
8 976×7	780
156×5	78 hundreds
3×58	(8 976×2)+(5×8 976)

9 [a] 123 × 5 = 615
[b] 287 × 4 = 1148
[c] 968 × 6 = 5808
[d] 6457 × 6 = 38742
[e] 645 × 7 = 4515
[f] 5326 × 7 = 37282
[g] 1524 × 9 = 13716
[h] 5786 × 6 = 34716
[i] 3146 × 2 = 6292
[j] 698 × 5 = 3 490
[k] 5 × 463 = 2 315

Word problems

[a] The price of toys = 12 × 3 = 36 pounds.
[b] The price of the cloth = 89 × 3 = 267 pounds.
[c] The price of all pieces = 6 × 136 = L.E. 816
[d] The number of children = 4 × 564 = 2 256 children.
[e] The price of the books = 18 × 5 = L.E. 90
The total he paid = 130 + 90 = L.E. 220
[f] Number of bars in 7 boxes = 7 × 56 = 392 bars.
Number of left bars = 392 – 360 = 32 bars.
[g] The price = 13 × 5 = 65 pounds.
The remained = 100 – 65 = 35 pounds.
[h] Number of red apples = 8 × 108 = 864 apples.
Number of yellow apples = 7 × 75 = 525 apples.
Number of all apples = 864 + 525 = 1 389 apples.
[i] The sum Amin paid = (20 × 4) + (12 × 2)
= 104 pounds.
[j] He paid = (2 × 3) + (5 × 2) = 16 pounds.
Total money he had = 16 + 4 = 20 pounds.
[k] The price of what he bought
= (2 × 3) + 2 + (3 × 2) = 14 pounds.
The left money with him = 20 – 14 = 6 pounds.
[l] The price of the books = 14 × 3 = 42 pounds.
The total of what Walaa paid
= 77 + 42 = 119 pounds.
The money remained with her
= 140 – 119 = 21 pounds.
[m] The number of all pencils = 9 × 5 × 6 = 270 pencils.

Think and answer

[a] No , because the price of pens = 7 × 16
= L.E. 112
[b] 32 × 5 = 160

Exercise 5

1. 4069 , 17 352 , 74 , 2 003 , 3 002
2. 174 , 5 103 , 1 035 , 2 406 , 46
3. [a] even [b] odd [c] even [d] odd
   [e] even [f] odd [g] odd [h] even
   [i] odd [j] odd [k] even [l] even
4. (14) , 19 , (50) , 73 , (8) , 55 , (216) , (222)
   303 , 527 , (850) , 913 , 4 125 , (15 286) ,
   (76 854) , 11 111
5. [a] 8 [b] 13 [c] 14 [d] 6 , 8
   [e] 31 , 33 [f] 1 , 3 [g] 0 , 2 [h] 8
6. [a] 20 [b] 20 [c] 37 [d] 37
   [e] 308 [f] 2 749 [g] 16 [h] 25
7. [a] 16 , 18 , 20 , 22 , 24
   [b] 57 , 59 , 61 , 63 , 65 [c] 8 and 10
   [d] 25 and 27 [e] 40 and 42
   [f] 99 and 101 [g] 98
8. [a] even [b] odd [c] even [d] even
   [e] odd [f] odd [g] even [h] even
   [i] even [j] odd
9. [a] odd [b] even [c] even [d] even
   [e] odd
10. [a] ✗ [b] ✗ [c] ✓ [d] ✓
    [e] ✓
11. [a] 5 , 7 [b] 10 and 12
    [c] 28 and 32 [d] 4 and 6
12. [a] 4 and 6 [b] 5 and 7 [c] 2 and 4
    [d] 49 and 51 "There are other solutions"
    [e] 48 and 52 "There are other solutions"
13. [a] 374 and 734
    [b] 589 , 859 , 895 and 985
    [c] 316 [d] 254
    [e] 645 [f] 587

Think and answer

[a] 2 , 4 and 6 [b] 11 , 53 and 65

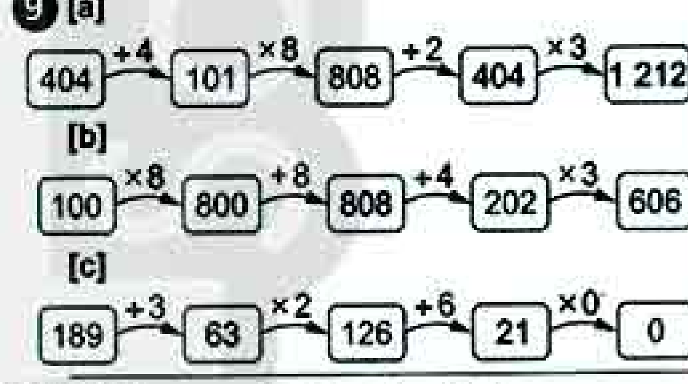
Exercise 6

1. [a] 369 ÷ 3 = ☐
   300 ÷ 3 = 100
   60 ÷ 3 = 20
   9 ÷ 3 = 3
   369 ÷ 3 = 123
   [b] 284 ÷ 2 = ☐
   200 ÷ 2 = 100
   80 ÷ 2 = 40
   4 ÷ 2 = 2
   284 ÷ 2 = 142
   [c] 848 ÷ 4 = ☐
   800 ÷ 4 = 200
   40 ÷ 4 = 10
   8 ÷ 4 = 2
   848 ÷ 4 = 212
2. [a] 24 [b] 21 [c] 8 [d] 214
   [e] 121 [f] 312 [g] 312 [h] 100
   [i] 31 [j] 105 [k] 62 [l] 610
   [m] 2 100 [n] 1 042 [o] 402 [p] 610
   [q] 401 [r] 201 [s] 1 001 [t] 6 006
   [u] 2 050
3. [a] 312 [b] 321 [c] 111 [d] 111
   [e] 2 112 [f] 2 341 [g] 230 [h] 201
   [i] 400 [j] 3 100 [k] 1 100 [l] 1 001
   [m] 2 011 [n] 51 [o] 92 [p] 53
   [q] 700 [r] 103 [s] 109 [t] 208
   [u] 403 [v] 1 010 [w] 5 005 [x] 504
4. [a] 101 [b] 20 [c] 501 [d] 4 002
   [e] 1 010 [f] 105 [g] 404 [h] 101
   [i] 123
5. 80 ÷ 4 → 4⟌4040
   707 ÷ 7 → 5⟌505
   8080 ÷ 8 → 6⟌120
   126 ÷ 3 → 4⟌168
   624 ÷ 6 → 9⟌936
6. [a] = [b] = [c] > [d] < [e] = [f] =

7. [a]



8. [a] 64 [b] 609 [c] 888 [d] 303
   [e] 105 [f] 999 [g] 1 260 [h] 396
   [i] 248 [j] 4 [k] 6 [l] 3
   [m] 7 [n] 2 [o] 3 [p] 5
9. [a]



10. [a] There are 3 009 ÷ 3 = 1 003
    [b] There are 5 050 ÷ 5 = 1 010
    [c] There are 2 107 ÷ 7 = 301
    [d] There are 72 027 ÷ 9 = 8 003

Word problems

[a] 626 ÷ 2 = 313
The number of pieces in each packet = 313 pieces.
[b] The number of pens = 240 ÷ 8 = 30 pens.
[c] The number of pupils in each class = 450 ÷ 9 = 50 pupils.
[d] The share of each one = 226 ÷ 2 = 113 pounds.
[e] The number of tourists in each bus = 160 ÷ 4 = 40 tourists.
[f] The number of fruit trees = 749 ÷ 7 = 107 trees.
[g] The number of books on each shelf = 804 ÷ 4 = 201 books.
[h] Number of apples = 63 + 57 = 120 apples.
Number of baskets = 120 ÷ 4 = 30 baskets.
[i] The price of all pencils = 375 – 60 = P.T. 315
The price of one pencil = 315 ÷ 3 = P.T. 105
[j] The rest of the price = 39 410 – 29 355 = L.E. 10 055
The value of each instalment = 10 055 ÷ 5 = L.E. 2 011
[k] The price of all notebooks = 1 000 – 70 = P.T. 930
The price of one notebook = 930 ÷ 3 = P.T. 310
[l] Number of children vaccinated in one day = 328 ÷ 8 = 41 children.
Number of children vaccinated in 5 days = 41 × 5 = 205 children.
[m] In one day , a worker takes = 369 ÷ 9 = L.E. 41
In 7 days , a worker takes = 41 × 7 = L.E. 287

Think and answer

[a] (1) > (2) > (3) <
[b] Half the amount = 48 ÷ 2 = 24 litres.
The number of bottles of 2 litres = 24 ÷ 2 = 12 bottles.
The number of bottles of 3 litres = 24 ÷ 3 = 8 bottles.

General exercise on unit one

1. ① 450 ② 10 ③ 70
   ④ 1 100 ⑤ 640 ⑥ 150
   ⑦ 980 ⑧ 90 ⑨ 310 ⑩ 20
   ⑪ 3 000 ⑫ 2 300 ⑬ 200 ⑭ 900
2. ① 70 ② 800 ③ 9 000
   ④ 100 ⑤ 70 ⑥ 800
   ⑦ 180 ⑧ 1 200 ⑨ 45 000
   ⑩ 1 200 ⑪ 2 000 ⑫ 12 000
3. ① 120 ② 48 ③ 188
   ④ 288 ⑤ 651 ⑥ 2 520
   ⑦ 2 884 ⑧ 830 ⑨ 4 860
   ⑩ 36 600 ⑪ 28 119 ⑫ 65 848
4. ① 213 ② 230 ③ 50
   ④ 110 ⑤ 41 ⑥ 61
   ⑦ 110 ⑧ 71 ⑨ 40
5. ① 204 ② 1 002 ③ 122
   ④ 601 ⑤ 61 ⑥ 122
6. ① 9 ② 9 ③ 10
   ④ 16 ⑤ 6 ⑥ 126

(7) 1 000 (8) 100 (9) 9 , 900
(10) 100 (11) 60 (12) 100

7 (1) > (2) < (3) =
(4) = (5) = (6) <

8 (1) < (2) < (3) = (4) <
(5) > (6) > (7) < (8) >
(9) = (10) < (11) > (12) <

9

The set	The number	The price of the unit	Total price
Fridge	20	2 000	40 000
Fan	25	200	5 000
Hot air set	30	300	9 000
Heater	15	200	3 000
Blender	10	100	1 000
The sum			58 000

10 (1) 45 + 5 (2) 135 (3) 1 (4) 4

11 (1) The odd numbers are : 5 775 , 123 and 1 221
(2) The even numbers are : 4 884 and 5 770

12 (1) 201 (2) < (3) = (4) >
(5) > (6) > (7) < (8) 1 010
(9) 4 600 (10) 3 100 (11) 111

13 (1) 3 , 100 , 1 200 (2) 1 800 (3) 60
(4) 3 , 1 (5) 70 (6) 10 , 280
(7) 9 000 (8) 66
(9) 10 000 , ten thousands (10) 2
(11) 5 (12) 24 (13) 400
(14) 1 000 (15) 100 (16) 4
(17) 15 (18) 1 (19) 300 (20) 100
(21) 2 × 100 "There are other solutions"
(22) 2 500 (23) 2 400

14 (1) 2 , 20 , 200 , 2000 , 20 000
(2) 215 , 430 , 860 , 1 720 , 3 440

15 The price of the orange = 3 × 10
= 30 pounds.

16 What Karol takes in a week = 5 × 7
= 35 pounds.

17 The price of two aquariums = 2 × 250
= 500 pounds.

18 The price of 4 grams = 562 × 4 = 2 248 pounds.

19 Mohamed has = 20 × 100 + 7 × 10
= 2 070 pounds.

20 Osama paid = 3 × 10 = 30 pounds.

21 The share of each brother = 164 ÷ 4
= 41 notebooks.

22 Number of pupils = 150 ÷ 3 = 50 pupils.

Unit 1 Activities

1 [a] 7 × 11 = 35 + 42 = 77
[b] 7 × 14 = 42 + 56 = 98
[c] 7 × 13 = 35 + 56 = 91
[d] 7 × 19 = 35 + 42 + 56 = 133

2 [a] 49 × 70 = 3 430
[b] 49 × 3 = 147
[c] 49 × 77 = 3 430 + 343 = 3 773
[d] 49 × 33 = 1 470 + 147 = 1 617
[e] 49 × 37 = 1 470 + 343 = 1 813
[f] 49 × 73 = 3 430 + 147 = 3 577

3 Check the equalities and try other numbers by yourself.
The reason :
Because we can write 32 = 2 + 30
= 2 + (3 × 10)
= 2 + (3 × 1) + (3 × 9)
= 2 + 3 + (3 × 9)
and we can write the other as the same.
[a] 47 = 7 + 4 + (4 × 9)
[b] 68 = 8 + 6 + (6 × 9)
[c] 96 = 6 + 9 + (9 × 9)
[d] 84 = 4 + 8 + (8 × 9)
[e] 59 = 9 + 5 + (5 × 9)

4 (1) Unreasonable, because the correct answer is 4 186
(2) Unreasonable, because we can not divide 1 779 by 6
(3) Unreasonable , because we can not divide 2 594 by 4
(4) Reasonable , because the product gives the final answer.

UNIT TWO

Exercise 7

First : Problems on the perimeter :

1 [a] The perimeter = 16 units.
[b] The perimeter = 20 units.
[c] The perimeter = 12 units.
[d] The perimeter = 12 units.
[e] The perimeter = 12 units.
[f] The perimeter = 12 units.

2 [a] The perimeter = 4 + 5 + 3 = 12 cm.
[b] The perimeter = 3 + 3 + 3 = 9 cm.
[c] The perimeter = 3 + 2 + 4 = 9 cm.
[d] The perimeter = 4 + 1 + 3 + 2 = 10 cm.
[e] The perimeter = 4 + 2 + 4 + 2 = 12 cm.
[f] The perimeter = 2 + 2 + 3 + 4 = 11 cm.
[g] The perimeter = 2 + 2 + 3 + 4 + 5 = 16 cm.
[h] The perimeter = 2 + 2 + 2 + 3 + 3 = 12 cm.

3 [a] The perimeter = 3 + 4 + 5 = 12 cm.
[b] The perimeter = 4 + 4 + 4 + 4 = 16 cm.
[c] The perimeter = 6 + 6 + 3 + 3 = 18 cm.
[d] The perimeter = 2 + 2 + 2 + 2 + 2 = 10 cm.

4 [a] The perimeter of any polygon equals the sum of its side lengths.
[b] 8 [c] 18 [d] 14 [e] 18
[f] 12 [g] 14

5 [a] The perimeter = 7 + 5 + 5 = 17 cm.
[b] The perimeter = 4 + 5 + 8 = 17 cm.
[c] The perimeter = 40 + 50 + 60 = 150 cm.

6 [a] The sum of the lengths of two sides
= 6 + 5 = 11 cm.
The length of the third side = 21 – 11
= 10 cm.
[b] The length of the third side
= 120 – 70 = 50 cm.
[c] The length of the third side = 200 – 140
= 60 metres.

Second : Problems on perimeter of square and rectangle :

7 [a] BC = 3 units , CD = 3 units , DA = 3 units
The perimeter of the square
= 3 + 3 + 3 + 3 = 3 × 4 = 12 units
[b] CD = 5 units , DA = 3 units
The perimeter of the rectangle
= 5 + 3 + 5 + 3 = (5 + 3) × 2
= 8 × 2 = 16 units

8 [a] The perimeter of the square
= 2 × 4 = 8 cm.
[b] The perimeter of the square
= 5 × 4 = 20 cm.
[c] The perimeter of the rectangle
= (6 + 4) × 2
= 10 × 2 = 20 cm.
[d] The perimeter of the rectangle
= (3 + 4) × 2
= 7 × 2 = 14 cm.
[e] AB = 3 cm.
The perimeter = 3 × 4 = 12 cm.
[f] AB = 3 cm. , BC = 2 cm.
The perimeter = (3 + 2) × 2 = 10 cm.

9

	The length in cm.	The width in cm.	The perimeter = (length + width) × 2
[a]	6	4	(6 + 4) × 2 = 20 cm.
[b]	7	3	(7 + 3) × 2 = 20 cm.
[c]	10	5	(10 + 5) × 2 = 30 cm.

10

	Side length in cm.	The perimeter of square = side length × 4
[a]	7	7 × 4 = 28 cm.
[b]	4	4 × 4 = 16 cm.
[c]	10	10 × 4 = 40 cm.

11 [a] (1) The perimeter of the square BCDE
= 4 × 4 = 16 cm.
(2) The perimeter of the triangle ABE
= 3 + 4 + 5 = 12 cm.

(3) The perimeter of the whole shape ACDE
= 3 + 4 + 4 + 4 + 5 = 20 cm.

[b] (1) The perimeter of the rectangle ABCD
= (3 + 6) × 2 = 9 × 2 = 18 cm.

(2) The perimeter of the triangle BCE
= 3 + 4 + 5 = 12 cm.

(3) The perimeter of the shape ABED
= 6 + 3 + 6 + 4 + 5 = 24 cm.

12 [a] The perimeter of a square
= side length × 4

[b] The perimeter of a rectangle
= (length + width) × 2

[c] 12 [d] 4 [e] 24

[f] 52 [g] 700

13

The side length of a square (cm.)	5	6	8	10	15	21
The perimeter of this square (cm.)	20	24	32	40	60	84

14 [a] The perimeter = 7 × 4 = 28 cm.

[b] The perimeter = (7 + 3) × 2 = 10 × 2
= 20 cm.

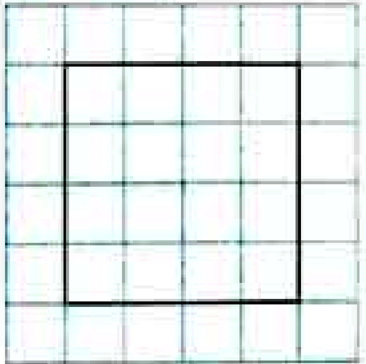
[c] The perimeter = 5 × 4 = 20 cm.

[d] The perimeter = (5 + 2) × 2 = 7 × 2
= 14 cm.

15 [a] > [b] = [c] > [d] =

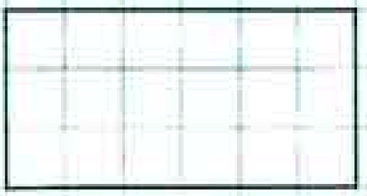
16 [a] 28 [b] 16

17 [a]



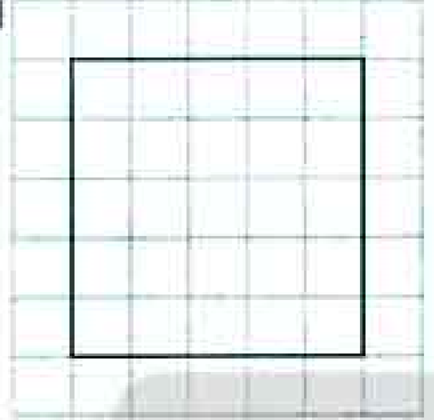
The perimeter = 16 units.

[b]



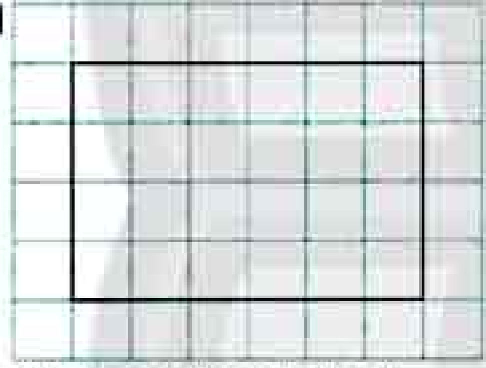
The perimeter = 18 units.

[c]



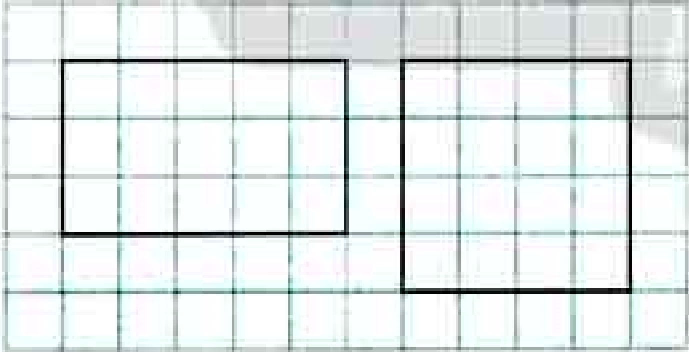
Think and answer

[a]



(There are other solutions)

[b]



Exercise 8

1 [a] 16 [b] 15
[c] 9 [d] 11

2 [a] 6  [b] 6

[c] 32 [d] 32

[e] 25 [f] 6 , 12

[g] 18 , 9

[h] 16 , 8 , 4

[i] 16 , 8 [j] 9

[k] 24 [l] 4 , 2

3 [a] Yes , because they have the same number of area units.

[b] No , because the perimeter of first shape is different.

4 [a] Fig. (4) , 9 [b] Fig. (2) , 4

[c] Fig. (1) , Fig. (3) , 16

5 [a] Fig. (1) and Fig. (5)

[b] Fig. (3) and Fig. (4)

[c] Fig. (2) and Fig. (6)

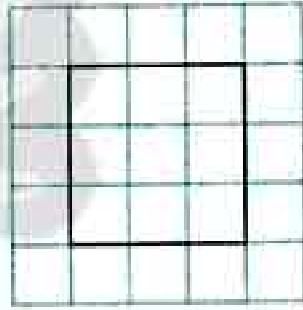
6 [a]

	Perimeter	Area
The red rectangle	10	6
The yellow rectangle	14	12
The large rectangle	18	18

[b] (1) No , because the sum of perimeters of two rectangles is 24 units and the perimeter of large rectangle is 18 units.

(2) Yes , because the area of large rectangle is 18 units and the sum of areas of the two rectangles is 18 units.

7

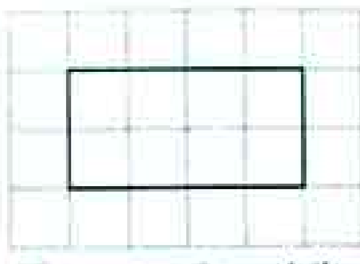


ANSWERS OF THE MAIN BOOK

[a] The perimeter of the square = 12 units.

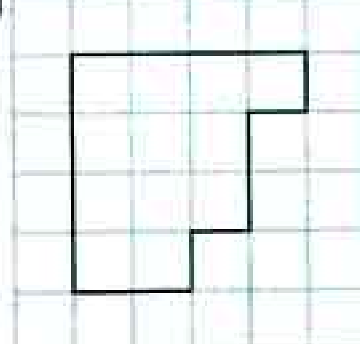
[b] The area of the square = 9

8 [a]



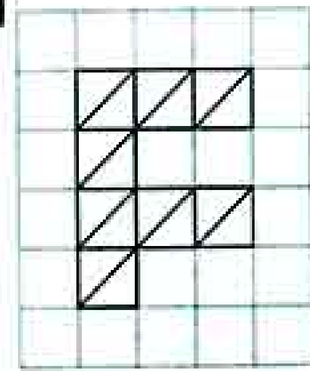
(There are other solutions)

[b]



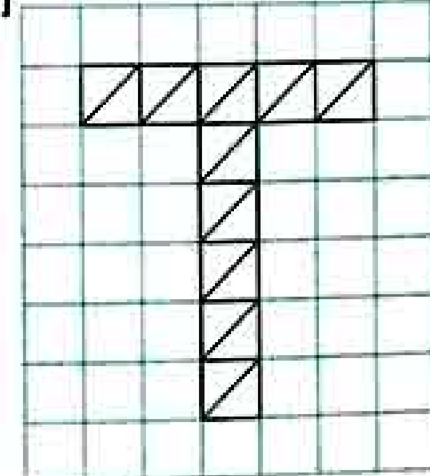
(There are other solutions)

[c]



(There are other solutions)

[d]



(There are other solutions)

Think and answer

[a]

(There are other solutions)

[b]

(There are other solutions)

[c]

(There are other solutions)

General exercise on unit two

1. The perimeter of the square = 3 × 4 = 12 cm.
2. The perimeter of the triangle = 5 + 7 + 10 = 22 cm.
3. The perimeter of the triangle = 7 + 7 + 7 = 21 cm.
4. The perimeter = (5 + 3) × 2 = 16 cm.
5. The perimeter of Δ ABC = 3 + 5 + 4 = 12 cm.
6. ① The sum of its side lengths. ② The side length × 4 ③ (length + width) × 2
7. The length of the third side = 100 – 70 = 30 m.
8. ① 16 ② 9 ③ 46
9. The length of the third side = 120 – 90 = 30 m.
10. ① 5 ② 10
11. ① 12 ② 8 ③ 16
12. ① 16 △ ② 8 ③ 4
13. (There are other solutions)
14. (There are other solutions)
15. (There are other solutions)
16. (There are other solutions)
17. ① (There are other solutions) ② (There are other solutions)
18. 13 cm.
19. 19
20. ① 4 ② 12 ③ 13
21. 18 cm.
22. 24 cm.
23. 20 cm.

24. • The area of figure (1) = 10 □
• The area of figure (2) = 5 □
• The area of figure (3) = 5 □
• The area of figure (4) = 5 □
• The area of figure (5) = 4 □
• The area of figure (6) = 5 □
• The area of figure (7) = 8 □
• The area of figure (8) = 12 □
• The figuers (2) , (3) , (4) and (6) are equal in area.
25. [a] 18 [b] 11 [c] 23
26. ① The perimeter of the square = 3 × 4 = 12 cm. ② The perimeter of the triangle = 5 + 7 + 10 = 22 cm.

Unit 2 Activities

1.

	The red rectangle	The green rectangle	The yellow rectangle
The perimeter	14	14	20
The area	10	12	24

2. [a] 32
[b] 20 □ , 10 □□ , 5 ⊞

3. [a]

Shape	1	2	3	4	5	6	7	The large square
Its area	1	4	4	2	1	2	2	16

[b] (1) 1 and 5 (2) 2 and 3
(3) 6 and 7 (4) 4 and 6 "or 4 and 7"

UNIT THREE

Exercise 9

1 [a] $\frac{1}{2}$ [b] $\frac{1}{3}$ [c] $\frac{1}{4}$

[d] $\frac{1}{5}$ [e] $\frac{1}{6}$ [f] $\frac{1}{8}$

[g] $\frac{1}{9}$ [h] $\frac{1}{12}$

2 [a] $\frac{2}{3}$ [b] $\frac{3}{4}$

[c] $\frac{3}{5}$ [d] $\frac{4}{6}$

[e] $\frac{3}{7}$ [f] $\frac{5}{8}$

[g] $\frac{4}{6}$ [h] $\frac{4}{12}$

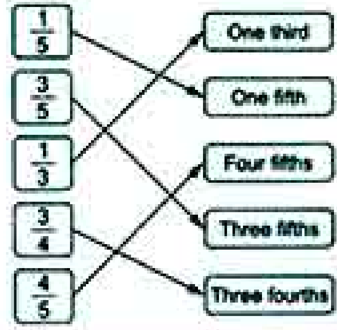
3 [a] $\frac{1}{2}$ [b] $\frac{2}{4}$ [c] $\frac{2}{3}$ [d] $\frac{2}{6}$ [e] $\frac{1}{4}$

[f] $\frac{3}{6}$ [g] $\frac{2}{8}$ [h] $\frac{3}{5}$ [i] $\frac{3}{7}$ [j] $\frac{5}{8}$

[k] $\frac{3}{10}$ [l] $\frac{3}{9}$ [m] $\frac{6}{10}$ [n] $\frac{4}{4}$ [o] $\frac{1}{2}$

[p] $\frac{1}{4}$

4



5 [a] $\frac{1}{2}$ [b] $\frac{2}{3}$ [c] $\frac{1}{4}$

[d] $\frac{4}{9}$ [e] $\frac{1}{8}$ [f] $\frac{5}{8}$

[g] $\frac{5}{6}$ [h] $\frac{7}{8}$ [i] $\frac{4}{7}$

[j] $\frac{5}{5}$ [k] $\frac{3}{10}$ [l] $\frac{6}{11}$

6 [a] One third. [b] One sixth.

[c] One eighth. [d] Quarter.

[e] Five ninths. [f] Three sevenths.

[g] Two fifths. [h] Seven tenths.

[i] Five elevenths. [j] Seven twelveths.

[k] One thirteenth. [l] Four fifteenths.

7 [a] $\frac{5}{6}$ = Five sixths [b] $\frac{4}{5}$ = Four fifths.

[c] $\frac{3}{7}$ = Three sevenths [d] $\frac{4}{9}$ = Four ninths.

8 [a] $\frac{1}{3}$ Numerator is 1 and denominator is 3

[b] $\frac{3}{4}$ Numerator is 3 and denominator is 4

[c] $\frac{5}{6}$ Numerator is 5 and denominator is 6

[d] $\frac{4}{9}$ Numerator is 4 and denominator is 9

[e] $\frac{2}{11}$ Numerator is 2 and denominator is 11

9

Numerator	Denominator	The fraction is	Read as
2	3	$\frac{2}{3}$	Two thirds
4	7	$\frac{4}{7}$	Four sevenths
5	6	$\frac{5}{6}$	Five sixths
3	10	$\frac{3}{10}$	Three tenths
3	8	$\frac{3}{8}$	Three eighths
2	9	$\frac{2}{9}$	Two ninths

10 $1 = \frac{5}{5} = \frac{3}{3} = \frac{4}{4} = \frac{7}{7} = \frac{6}{6} = \frac{10}{10} = \frac{24}{24}$

11 [a] 2 [b] 3 [c] 4 [d] 5 [e] 9 [f] 11

Think and answer

[a] The number of birds = 2 birds.

[b] I am $\frac{6}{7}$

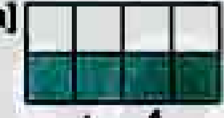
Exercise 10

First : Problems on equal fractions :

1 [a] $\frac{2}{4}$ [b] $\frac{2}{6}$ [c] $\frac{1}{2} = \frac{3}{6}$ [d] $\frac{2}{8}$

[e] $\frac{3}{15}$ [f] 4 [g] 8 [h] $\frac{1}{6} = \frac{3}{18}$

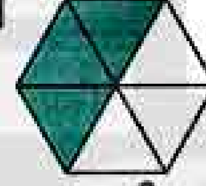
2 [a]



$\frac{1}{2} = \frac{4}{8}$

(There are other solutions)

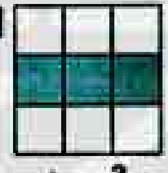
[b]



$\frac{1}{2} = \frac{3}{6}$

(There are other solutions)

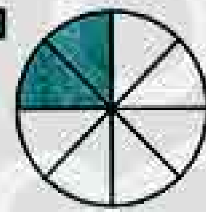
[c]



$\frac{1}{3} = \frac{3}{9}$

(There are other solutions)

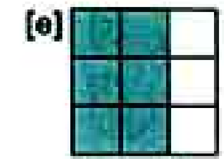
[d]



$\frac{1}{4} = \frac{2}{8}$

(There are other solutions)

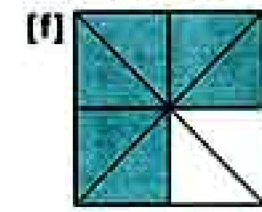
[e]



$\frac{2}{3} = \frac{6}{9}$

(There are other solutions)

[f]



$\frac{3}{4} = \frac{6}{8}$

(There are other solutions)

3 [a] $\frac{3}{6}$ [b] $\frac{8}{12}$ [c] $\frac{6}{10}$

[d] $\frac{4}{18}$ [e] $\frac{20}{32}$ [f] $\frac{12}{42}$

[g] $\frac{15}{20}$ [h] $\frac{30}{36}$ [i] $\frac{9}{27}$

[j] $\frac{10}{20}$ [k] $\frac{16}{24}$ [l] $\frac{7}{7}$

4 [a] $\frac{4}{8} = \frac{6}{12}$ [b] $\frac{2}{6} = \frac{5}{15}$

[c] $\frac{6}{15} = \frac{8}{20}$ [d] $\frac{9}{21} = \frac{15}{35}$

[e] $\frac{10}{15} = \frac{6}{9}$ [f] $\frac{50}{60} = \frac{25}{30}$

[g] $\frac{18}{24} = \frac{24}{32}$ [h] $\frac{14}{16} = \frac{49}{56}$

[i] $\frac{16}{36} = \frac{24}{54}$ [j] $\frac{15}{40} = \frac{27}{72}$

[k] $\frac{8}{8} = \frac{20}{20}$ [l] $\frac{5}{5} = \frac{4}{4} = \frac{7}{7}$

[m] $\frac{1}{2} = \frac{3}{6} = \frac{5}{10} = \frac{6}{12} = \frac{7}{14} = \frac{8}{16} = \frac{10}{20} = \frac{15}{30}$

5 [a] $\frac{3}{15}$ [b] $\frac{4}{36}$ [c] $\frac{15}{20}$

[d] $\frac{4}{14}$ [e] $\frac{45}{72}$ [f] $\frac{32}{72}$

[g] $\frac{18}{21}$ [h] $\frac{12}{32}$ [i] $\frac{6}{20}$

[j] $\frac{30}{55}$ [k] $\frac{35}{60}$ [l] $\frac{18}{22}$

(There are other solutions)

6 [a] $\frac{3}{9} = \frac{4}{12}$ [b] $\frac{4}{10} = \frac{6}{15}$

[c] $\frac{10}{18} = \frac{25}{45}$ [d] $\frac{6}{22} = \frac{9}{33}$

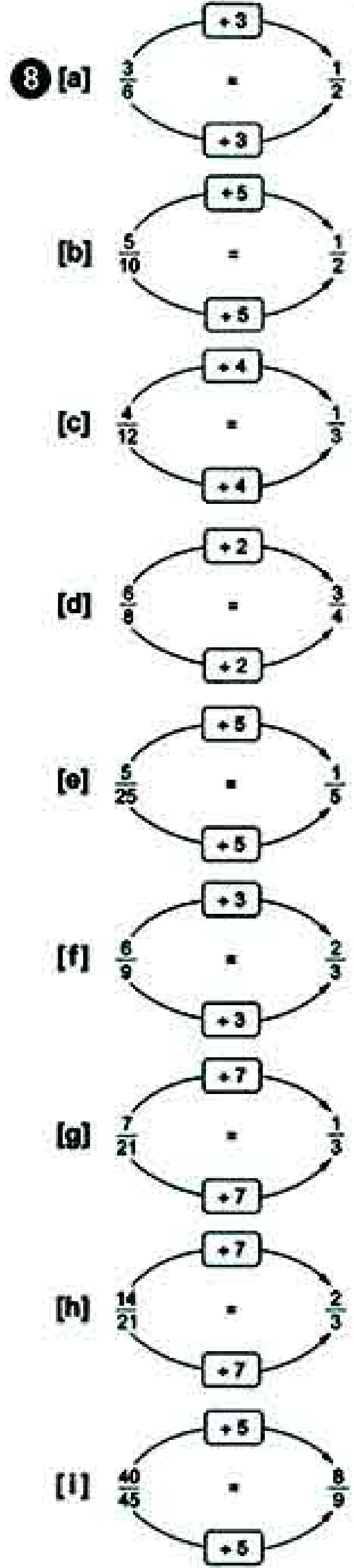
[e] $\frac{12}{21} = \frac{16}{28} = \frac{40}{70}$ [f] $\frac{16}{18} = \frac{40}{45} = \frac{64}{72}$

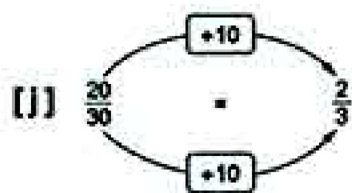
(There are other solutions)

7 [a] 8 [b] 63 [c] 9
[d] 36 [e] $\frac{6}{9}$ [f] $\frac{3}{6}$
[g] $\frac{5}{15}$

Second : Problems on simplifying fractions :

8



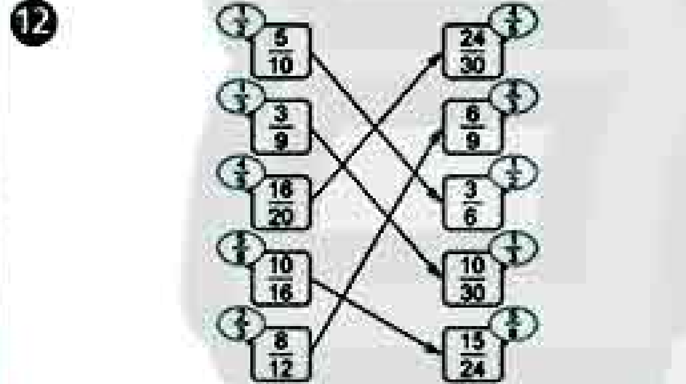


9 [a] $\frac{1}{2}$ [b] $\frac{3}{4}$ [c] $\frac{3}{5}$
[d] $\frac{8}{10}$ [e] $\frac{1}{3}$ [f] $\frac{1}{10}$
[g] $\frac{2}{3}$ [h] $\frac{5}{6}$ [i] $\frac{2}{3}$
[j] $\frac{6}{12} = \frac{1}{2}$ [k] $\frac{2}{5} = \frac{6}{15}$ [l] $\frac{2}{3} = \frac{6}{9}$

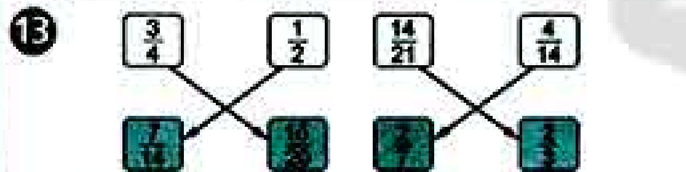
10 [a] $\frac{1}{3}$ [b] $\frac{3}{5}$ [c] $\frac{1}{10}$
[d] $\frac{6}{7}$ [e] $\frac{2}{7}$ [f] $\frac{1}{10}$
[g] $\frac{3}{5}$ [h] $\frac{4}{5}$ [i] $\frac{7}{9}$
[j] $\frac{4}{7}$ [k] $\frac{7}{9}$ [l] $\frac{2}{11}$
[m] $\frac{6}{11}$ [n] $\frac{5}{9}$ [o] $\frac{2}{3}$

11 [a] 3 [b] $\frac{3}{4}$ [c] $\frac{4}{5}$
[d] $\frac{2}{3}$ [e] $\frac{1}{4}$ [f] $\frac{1}{3}$

12



13



14 [a] $\frac{4}{8}$, $\frac{5}{10}$ Since : $\frac{4}{8} = \frac{1}{2}$ and $\frac{5}{10} = \frac{1}{2}$
So $\frac{4}{8} = \frac{5}{10}$
[b] $\frac{12}{18}$, $\frac{14}{21}$ Since : $\frac{12}{18} = \frac{2}{3}$ and $\frac{14}{21} = \frac{2}{3}$
So $\frac{12}{18} = \frac{14}{21}$
[c] $\frac{25}{35}$, $\frac{45}{63}$ Since : $\frac{25}{35} = \frac{5}{7}$ and $\frac{45}{63} = \frac{5}{7}$
So $\frac{25}{35} = \frac{45}{63}$
[d] $\frac{10}{40}$, $\frac{16}{64}$ Since : $\frac{10}{40} = \frac{1}{4}$ and $\frac{16}{64} = \frac{4}{16} = \frac{1}{4}$
So $\frac{10}{40} = \frac{16}{64}$

15 [a] $\frac{18}{24} = \frac{3}{4}$ So I am $\frac{3}{4}$
[b] $\frac{21}{28} = \frac{3}{4}$ So I am $\frac{3}{4}$
[c] $\frac{12}{16} = \frac{3}{4}$ So I am $\frac{3}{4}$
[d] $\frac{30}{50} = \frac{3}{5} = \frac{24}{40}$ So I am $\frac{24}{40}$

Think and answer

[a] Two eighths. [b] Two sixths.

[c] ① $\frac{18}{27} = \frac{2}{3}$

② $\frac{36}{48} = \frac{3}{4}$

③ $\frac{100}{120} = \frac{5}{6}$

Exercise 11

1 [a] > [b] < [c] < [d] >
[e] > [f] < [g] < [h] >
[i] = [j] > [k] > [l] =

2 [a] < [b] < [c] > [d] > [e] >
[f] < [g] > [h] > [i] > [j] <
[k] > [l] < [m] > [n] < [o] <
[p] = [q] < [r] < [s] = [t] =
[u] =

3 [a] $\frac{2}{6}$, ($\frac{5}{6}$) , $\frac{4}{6}$, $\frac{3}{6}$
[b] $\frac{5}{7}$, $\frac{2}{7}$, ($\frac{6}{7}$) , $\frac{3}{7}$
[c] $\frac{2}{9}$, $\frac{7}{9}$, $\frac{4}{9}$, ($\frac{9}{9}$)
[d] $\frac{5}{11}$, $\frac{2}{11}$, ($\frac{7}{11}$) , $\frac{4}{11}$
[e] $\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{8}$, ($\frac{1}{3}$)
[f] ($\frac{4}{5}$) , $\frac{2}{5}$, $\frac{1}{5}$, $\frac{6}{10}$
[g] $\frac{3}{8}$, $\frac{1}{4}$, ($\frac{7}{8}$) , $\frac{4}{8}$
[h] $\frac{2}{7}$, $\frac{3}{7}$, $\frac{1}{7}$, (1)
[i] $\frac{1}{6}$, $\frac{1}{5}$, $\frac{1}{7}$, (1)
[j] $\frac{2}{5}$, ($\frac{2}{3}$) , $\frac{2}{7}$, $\frac{2}{9}$

4 [a] The order is : $\frac{1}{6}$, $\frac{2}{6}$ and $\frac{4}{6}$
[b] The order is : $\frac{2}{10}$, $\frac{3}{10}$, $\frac{5}{10}$ and $\frac{9}{10}$
[c] The order is : $\frac{12}{25}$, $\frac{18}{25}$, $\frac{22}{25}$ and $\frac{24}{25}$
[d] The order is : $\frac{1}{7}$, $\frac{1}{5}$, $\frac{1}{3}$ and $\frac{1}{2}$
[e] The order is : $\frac{1}{5}$, $\frac{1}{4}$, $\frac{1}{3}$ and $\frac{1}{2}$
[f] The order is : $\frac{1}{6}$, $\frac{1}{5}$, $\frac{2}{8}$ and $\frac{1}{2}$
[g] The order is : $\frac{1}{6}$, $\frac{4}{12}$, $\frac{3}{6}$ and $\frac{5}{6}$
[h] The order is : $\frac{1}{8}$, $\frac{5}{8}$, $\frac{7}{8}$ and 1
[i] The order is : $\frac{1}{7}$, $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{3}$

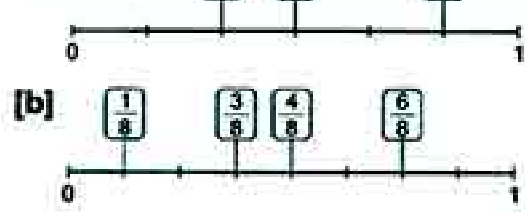
5 [a] The order is : $\frac{5}{5}$, $\frac{3}{6}$ and $\frac{1}{5}$
[b] The order is : $\frac{7}{7}$, $\frac{6}{7}$, $\frac{5}{7}$ and $\frac{2}{7}$
[c] The order is : $\frac{9}{10}$, $\frac{7}{10}$, $\frac{5}{10}$ and $\frac{3}{10}$
[d] The order is : $\frac{1}{6}$, $\frac{1}{7}$, $\frac{1}{9}$ and $\frac{1}{10}$
[e] The order is : $\frac{1}{8}$, $\frac{1}{10}$, $\frac{1}{11}$ and $\frac{1}{12}$
[f] The order is : 1 , $\frac{7}{9}$, $\frac{5}{9}$ and $\frac{2}{9}$
[g] The order is : $\frac{12}{14}$, $\frac{5}{7}$, $\frac{3}{7}$ and $\frac{2}{7}$
[h] The order is : 1 , $\frac{4}{5}$, $\frac{3}{5}$ and $\frac{2}{10}$

6 [a] $\frac{4}{6}$ (There are other solutions)
[b] $\frac{3}{5}$ (There are other solutions)
[c] $\frac{3}{8}$
[d] $\frac{1}{2} = \frac{3}{6}$ Therefore , the two fractions are $\frac{4}{6}$ and $\frac{5}{6}$
[e] $\frac{1}{2} = \frac{3}{6}$ Therefore , the two fractions are $\frac{1}{6}$ and $\frac{2}{6}$

[f] $\frac{1}{2} = \frac{4}{8}$ Therefore , the three fractions are $\frac{1}{8}$, $\frac{2}{8}$ and $\frac{3}{8}$

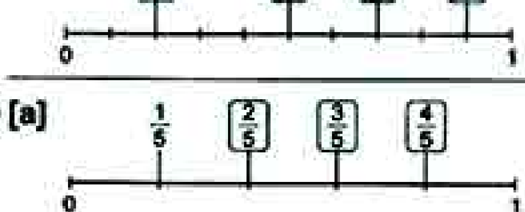
[g] $\frac{1}{2} = \frac{5}{10}$ Therefore , the two fractions are $\frac{3}{10}$ and $\frac{4}{10}$

7 [a]



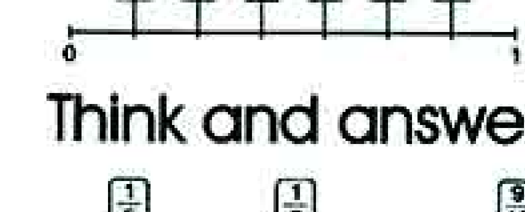
[b] $\frac{1}{8}$, $\frac{3}{8}$, $\frac{4}{8}$, $\frac{6}{8}$

[c]

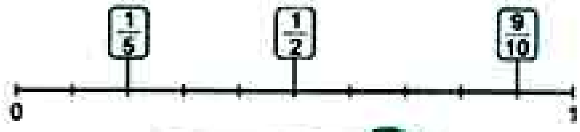


8 [a] $\frac{1}{6}$, $\frac{2}{6}$, $\frac{3}{6}$, $\frac{4}{6}$

[b]



Think and answer



Exercise 12

1 [a] $\frac{3}{4}$ [b] $\frac{3}{6}$ [c] $\frac{5}{6}$

[d] $\frac{5}{8}$ [e] $\frac{1}{9} + \frac{4}{9} = \frac{5}{9}$

[f] $\frac{1}{3} + \frac{2}{3} = \frac{3}{3} = 1$

2 [a] $\frac{4}{7}$ [b] $\frac{3}{5}$ [c] $\frac{2}{3}$

[d] $\frac{8}{9}$ [e] $\frac{5}{8}$ [f] $\frac{5}{6}$

[g] $\frac{9}{11}$ [h] $\frac{11}{15}$ [i] $\frac{9}{10}$

[j] $\frac{7}{8}$ [k] $\frac{9}{10}$ [l] $\frac{5}{11}$

3 [a] $\frac{4}{8} = \frac{1}{2}$ [b] $\frac{3}{9} = \frac{1}{3}$ [c] $\frac{8}{12} = \frac{2}{3}$

[d] $\frac{6}{15} = \frac{2}{5}$ [e] $\frac{8}{18} = \frac{4}{9}$ [f] $\frac{14}{20} = \frac{7}{10}$

[g] $\frac{4}{4} = 1$ [h] $\frac{9}{9} = 1$ [i] $\frac{2}{2} = 1$

[j] $\frac{7}{14} = \frac{1}{2}$ [k] $\frac{12}{18} = \frac{2}{3}$ [l] $\frac{9}{9} = 1$

4 [a] $\frac{3}{5}$ [b] $\frac{1}{6}$ [c] $\frac{2}{9}$

[d] $\frac{2}{11}$ [e] $\frac{2}{8} = \frac{1}{4}$ [f] $\frac{2}{10} = \frac{1}{5}$

[g] $\frac{5}{15} = \frac{1}{3}$ [h] $\frac{4}{6} = \frac{2}{3}$ [i] $\frac{9}{12} = \frac{3}{4}$

[j] $\frac{10}{25} = \frac{2}{5}$ [k] $\frac{1}{5}$ [l] $\frac{3}{3} - \frac{1}{3} = \frac{2}{3}$

[m] $\frac{2}{2} - \frac{1}{2} = \frac{1}{2}$ [n] $\frac{5}{9}$

[o] $\frac{0}{11} = 0$ [p] 0

5

$\frac{2}{5} + \frac{1}{5}$ — $\frac{7}{8} - \frac{1}{8}$

$\frac{5}{9} + \frac{1}{9}$ — $\frac{4}{5} - \frac{1}{5}$

$\frac{4}{8} + \frac{2}{8}$ — $\frac{8}{9} - \frac{2}{9}$

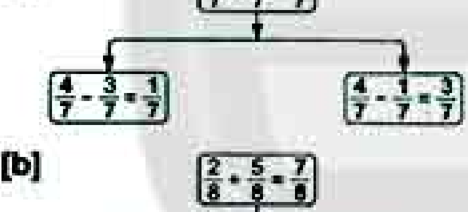
$\frac{3}{10} + \frac{2}{10}$ — $\frac{9}{10} - \frac{1}{10}$

$\frac{2}{5} + \frac{2}{5}$ — $1 - \frac{1}{2}$

6 [a] = [b] < [c] < [d] = [e] > [f] =

7 [a]

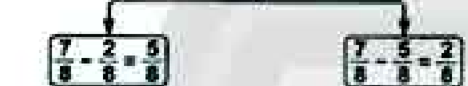
$\frac{3}{7} + \frac{1}{7} = \frac{4}{7}$



$\frac{4}{7} - \frac{3}{7} = \frac{1}{7}$ $\frac{4}{7} - \frac{1}{7} = \frac{3}{7}$

[b]

$\frac{2}{8} + \frac{5}{8} = \frac{7}{8}$

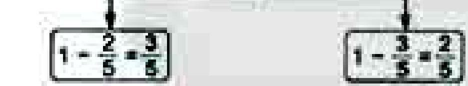


$\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$ $\frac{7}{8} - \frac{5}{8} = \frac{2}{8}$

[c]



$\frac{2}{5} + \frac{3}{5} = \frac{5}{5} = 1$



$1 - \frac{2}{5} = \frac{3}{5}$ $1 - \frac{3}{5} = \frac{2}{5}$

8 [a] The answer : $\frac{8}{9} - \frac{7}{9} = \frac{1}{9}$

[b] The answer : $\frac{9}{12} - \frac{5}{12} = \frac{4}{12}$

[c] The answer : $1 - \frac{3}{5} = \frac{2}{5}$

[d] The answer : $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$

[e] The answer : $\frac{8}{9} - \frac{4}{9} = \frac{4}{9}$

[f] The answer : $1 - \frac{5}{8} = \frac{3}{8}$

9 [a] The answer : $\frac{9}{10} - \frac{3}{10} = \frac{6}{10}$

[b] The answer : $\frac{3}{5} - \frac{2}{5} = \frac{1}{5}$

[c] The answer : $\frac{4}{7} - \frac{1}{7} = \frac{3}{7}$

[d] The answer : $1 - \frac{3}{10} = \frac{7}{10}$

[e] The answer : $\frac{3}{4} + \frac{1}{4} = \frac{4}{4}$

[f] The answer : $\frac{1}{6} + \frac{1}{6} = \frac{2}{6}$

[g] The answer : $\frac{5}{8} + \frac{1}{4} = \frac{5}{8} + \frac{2}{8} = \frac{7}{8}$

10 [a] $\frac{3}{9}$ [b] $\frac{4}{13}$ [c] $\frac{5}{8}$

[d] $\frac{4}{7}$ [e] $\frac{2}{12}$ [f] $\frac{7}{9}$

Word problems

[a] The eaten part = $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$ parts

[b] She walks = $\frac{1}{4} + \frac{3}{4} = \frac{4}{4} = 1$ km.

[c] Fraction of present = $1 - (\frac{1}{8} + \frac{2}{8}) = \frac{8}{8} - \frac{3}{8} = \frac{5}{8}$

[d] The left part = $1 - (\frac{4}{10} + \frac{1}{10})$ $= \frac{10}{10} - \frac{5}{10} = \frac{5}{10} = \frac{1}{2}$ pizza

Think and answer

[a] ① $\frac{2}{3}$ and $\frac{1}{3}$ (There are other solutions)

② $\frac{5}{7}$ and $\frac{3}{7}$ (There are other solutions)

[b] ① $\frac{1}{5} + \frac{1}{5} = \frac{2}{5}$

② $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

③ $\frac{3}{6} - \frac{2}{6} = \frac{1}{6}$

General exercise on unit three

1 ① $\frac{1}{3}$ ② $\frac{2}{5}$ ③ $\frac{3}{4}$ ④ $\frac{2}{8} = \frac{1}{4}$

2 ①





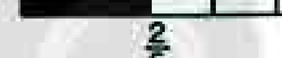
$\frac{5}{8}$

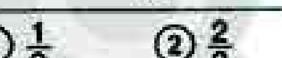
②



$\frac{2}{3}$

③





$\frac{2}{5}$

3 ① $\frac{1}{2}$ ② $\frac{2}{3}$ ③ $\frac{1}{3}$



4 ① $\frac{3}{5}$ ② 21 ③ $\frac{3}{9}$ ④ 5

⑤ $\frac{3}{8}$ ⑥ 1



5 ① $\frac{6}{5}$ ② 1 ③ 6 ④ $\frac{5}{7}$

⑤ 3 ⑥ <



ANSWERS OF THE MAIN BOOK

6 ① $1 - \frac{2}{5}$ ② $\frac{6}{9}$ ③ $\frac{3}{7} + \frac{3}{7}$

7 ① < ② < ③ > ④ =

8 Ascending order : $\frac{1}{10}$, $\frac{2}{10}$, $\frac{3}{10}$ and $\frac{9}{10}$

Descending order : $\frac{9}{10}$, $\frac{3}{10}$, $\frac{2}{10}$ and $\frac{1}{10}$

9 ① 3 ② $\frac{4}{4}$ ③ <

10 Shape 2

11 ① $\frac{4}{5}$ ② 2 ③ $\frac{4}{4}$, 1

④ $\frac{1}{4}$ ⑤ $\frac{1}{7}$ ⑥ $\frac{7}{9}$

12 $\frac{2}{8} = \frac{1}{4}$

13 ① $\frac{1}{9}$ ② $\frac{3}{9} = \frac{1}{3}$ ③ $\frac{2}{9}$

14 ① < ② > ③ =

④ = ⑤ >

Unit 3 Activities

1

+	$\frac{1}{7}$	$\frac{4}{7}$	$\frac{3}{7}$
$\frac{2}{7}$	$\frac{3}{7}$	$\frac{6}{7}$	$\frac{5}{7}$
$\frac{1}{7}$	$\frac{2}{7}$	$\frac{5}{7}$	$\frac{4}{7}$
$\frac{3}{7}$	$\frac{4}{7}$	1	$\frac{6}{7}$

2 [a] The fraction = $\frac{3}{5} - \frac{2}{5} = \frac{1}{5}$

[b] The fraction = $1 - \frac{3}{4} = \frac{1}{4}$

[c] The fraction = $\frac{4}{9} - \frac{3}{9} = \frac{1}{9}$

[d] The fraction = $\frac{3}{9} + \frac{4}{9} = \frac{7}{9}$

3 [a] The fraction of each piece in relation to the whole box is $\frac{1}{8}$

[b] The one's share = $\frac{1}{4}$

[c] Land planted cotton = $\frac{1}{5}$

Land planted wheat = $\frac{2}{5}$

Land planted rice = $\frac{2}{5}$

[d] $\frac{2}{9}$

4



UNIT FOUR

Exercise 13

1. [a] 70° C [b] 40° C [c] 26° C [d] 16° C
2. [a] 35° C [b] 13° C [c] 25° C [d] 0° C
3. [a] The thermometer [b] degree celsius
   [c] 37° C [d] 30° C [e] 0° C [f] 100° C
   [g] to give the weather report which includes a forecast of rains , wind , the ebb and flow , and other weather conditions.
4. [a] heavy [b] 38 [c] 40
   [d] 44 [e] spring
5. [a] 26 , 21 , 16 , 8
   [b] Aswan
   [c] 30 , 15 , 16 , 4 [d] 30 , 10 , 16 , 1
6. [a] Monday [b] Thursday
   [c] Sunday and Tuesday
7. [a] Friday [b] 28 – 17 = 11° C
   [c] Tuesday [d] Thursday and Friday
   [e] Heavy clothes.
8. [a] [b] [c] [d]
   (thermometers: 0°, 10°, 20°, 30°, 40°, 50°, 60°, 70°, 80°, 90°, 100°C)
9. [a] 16° C [b] 9° C

Exercise 14

1. [a] m. [b] m. [c] km.
   [d] m. [e] cm. [f] cm.
   [g] m. [h] km. [i] km.
2. [a] 3 cm. [b] 25 cm. [c] 25 m.
   [d] 2 metres [e] 6 m. [f] 100 m.
   [g] 140 cm. [h] 80 cm. [i] 187 m.
   [j] 137 m. [k] 200 km.
3. [a] 2 × 1 000 = 2 000 metres
   [b] 5 × 1 000 = 5 000 metres
   [c] 15 × 1 000 = 15 000 metres
   [d] 12 × 1 000 = 12 000 metres
   [e] 30 × 1 000 = 30 000 metres
   [f] 9 × 100 = 900 centimetres
   [g] 40 × 100 = 4 000 centimetres
   [h] 25 × 100 = 2 500 centimetres
   [i] 43 × 100 = 4 300 centimetres
   [j] 570 × 100 = 57 000 centimetres
4. [a] 9 [b] 18 [c] 7
   [d] 24 [e] 30 [f] 84
   [g] 91 [h] 94 [i] 80
   [j] 400
5. [a] 2 324 [b] 9 640
   [c] 15 014 [d] 28 008
   [e] 10 409 [f] 743
   [g] 524 [h] 1 605
   [i] 7 812 [j] 5 005
6. [a] 7 km. and 455 m. [b] 15 km. and 140 m.
   [c] 14 km. and 400 m. [d] 19 km. and 109 m.
   [e] 10 km. and 5 m. [f] 8 m. and 76 cm.
   [g] 9 m. and 40 cm. [h] 5 m. and 3 cm.
   [i] 160 m. and 15 cm. [j] 17 m. and 60 cm.
7.
2 kilometres and 5 metres	250 centimetres
2 metres and 5 centimetres	205 centimetres
2 kilometres and 50 metres	2 005 metres
2 kilometres and a half	2 500 metres
2 metres and 50 centimetres	2 050 metres
8. [a] 500 [b] 6 250
   [c] 650 [d] 250 , 25 000
   [e] 75 000 [f] 475
   [g] 7 012 [h] 1 998
   [i] 500 , $\frac{1}{2}$
9. [a] > [b] = [c] > [d] <
   [e] < [f] = [g] > [h] <
   [i] = [j] > [k] =
10. [a] The order is : 2 m. , 280 cm. , 8 m. and 802 cm.
    [b] The order is : half a metre , 210 cm. and 2 metres and a quarter of metre.
    [c] The order is : 2 km. , 2 950 m. , 3 000 m. and 4 km.
    [d] The order is : 250 m. , $\frac{3}{4}$ km. , 1 250 m. and 2 km.

Word problems

[a] The difference between their heights = 155 – 150 = 5 cm.
[b] The remaining distance = 2 000 – 1 050 = 950 m.
[c] The distance between Cairo and Luxor = 57 455 – 56 714 = 741 km.
[d] (1) The distance between the Ahmed Hamdy tunnel and Taba = 623 – 131 = 492 km.
(2) The distance between Cairo and St. Catherine. = 131 + 319 = 450 km.
(3) The distance between St. Catherine and Taba = 623 – 450 = 173 km.
(4) The order is : 492 km. , 450 km. and 173 km.

Think and answer

[a] (1) 2 (2) 902
[b] (1) One mile. (2) 2 miles.

Exercise 15

1. [a] gm. [b] gm. [c] gm. [d] kg.
2. [a] 41 kilograms [b] 40 grams
   [c] 6 kilograms [d] 155 grams
   [e] 1 127 kilograms [f] 10 kilograms
3. [a] 150 gm. [b] 300 kg. [c] 20 gm.
   [d] 2 kg. [e] 400 gm.

4. [a] 5 000 [b] 4 [c] 3 000
   [d] 10 [e] 23 000 [f] 28
   [g] 18 000 [h] 13 [i] 30 000
   [j] 40
5. [a] 4 700 gm. [b] 3 030 gm.
   [c] 10 800 gm. [d] 64 032 gm.
   [e] 53 008 gm. [f] 4 kg. and 500 gm.
   [g] 3 kg. and 715 gm. [h] 3 kg. and 508 gm.
   [i] 7 kg. and 9 gm. [j] 6 kg. and 100 gm.
6. [a] 2 kg. [b] 50 kg. [c] 7 kg.
   [d] 7 000 gm. [e] kg. [f] 500
   [g] 16 070 [h] 20
7.
2 kg. and 20 gm.	2 002 gm.
2 kg. and a quarter.	2 200 gm.
1 750 gm. and 250 gm.	2 020 gm.
2 kg. and 2 gm.	2 250 gm.
2 kg. and 200 gm.	2 kg.
8. [a] 2 500 [b] 5 250 [c] 7 750
   [d] 6 450 [e] 2 550 [f] 6 000
   [g] 3 250
9. [a] > [b] < [c] < [d] =
   [e] < [f] > [g] > [h] <
   [i] > [j] < [k] =
10. [a] The order is : 6 kg. , 5 000 gm. , 3 750 gm. and 2 kg.
    [b] The order is : 601 kg. , 6 500 gm. , 6 200 gm. and 6 kg.
    [c] The order is : 1 kg. , 650 gm. , 560 gm. and $\frac{1}{4}$ kg.
    [d] The order is : 5 400 gm. , 5 kg. , 4 500 gm. and $\frac{3}{4}$ kg.

Word problems

[a] The weight that Farah carried = 2 500 + 2 250 = 4 750 gm.

[b] The weight that Nagi carried
= 3 250 + 1 750 = 5 000 gm.
[c] The weight that Osama carried
= 4 000 + 3 500 = 7 500 gm.
[d] The difference between their weights
= 48 100 – 45 200 = 2 900 gm.
[e] The price of oranges = 3 × 4 = L.E. 12
The price of grapes = 2 × 3 = L.E. 6
She paid = 12 + 6 = L.E. 18
[f] The price of oranges = 2 × 2 = L.E. 4
She paid = 2 + 4 + 4 + 3 + 3 = L.E. 16

Exercise 16

1
[a] 5 to nine 8 : 55 [b] 5 past three 3 : 05
[c] 10 past seven 7 : 10 [d] 3 o'clock 3 : 00
[e] 10 to twelve 11 : 50 [f] quarter past two 2 : 15
[g] quarter to three 2 : 45 [h] 10 past five 5 : 10
[i] Third past six 6 : 20 [j] 20 to six 5 : 40
[k] 25 past seven 7 : 25 [l] third past nine 9 : 20
[m] 20 to eight 7 : 40 [n] 25 to nine 8 : 35
[o] 10 to five 4 : 50 [p] 20 to four 3 : 40
[q] twelve o'clock 12 : 00 [r] 10 past 10 10 : 10
[s] half past one 1 : 30 [t] 10 to two 1 : 50

2

[a]	[b]	[c]
It's 10 past 7 7 : 10	It's 5 to nine 8 : 55	It's half past five 5 : 30
[d]	[e]	[f]
It's 10 to seven 6 : 50	It's twenty five to four 3 : 35	It's 25 past eleven 11 : 25
[g]	[h]	
It's third past 4 4 : 20	It's third to 4 3 : 40	

3

[a]	now	after 2 hours
[b]	now	after 3 hours
[c]	now	after one and half
[d]	an hour ago	now
[e]	2 hours ago	now

4
[a] January , February , March , April , May , June , July , August , September , October , November , December.
[b] March (3rd) , April (4th) , May (5th) , June (6th) , July (7th) , August (8th) , September (9th) , October (10th) , November (11th) , December (12th)
[c] January , December. [d] March , July.
[e] June , December. [f] April , October.
[g] January , November.
[h] Saturday , Sunday , Monday , Tuesday , Wednesday , Thursday , Friday.
[i] 12 [j] 7
[k] April , June , September , November.
[l] January , March , May , July , August , October , December.
[m] Tuesday , Saturday.
[n] Saturday , Wednesday.

5
[a] 48 [b] 14 [c] 30
[d] 2 , 1 [e] $\frac{1}{2}$ [f] $\frac{1}{4}$
[g] 2 and quarter [h] 5

6
[a] 28 [b] 39 [c] 7 [d] 2 , 1
[e] 4

7
[a] 72 [b] 240 [c] 29 [d] 100
[e] 60 [f] 78 [g] 3 [h] 1 , 8
[i] $\frac{1}{2}$ [j] $\frac{1}{4}$ [k] 3

8
[a] 60 [b] 180 [c] 370 [d] 20
[e] 90 [f] 135 [g] 80 [h] 5
[i] 2 , 5 [j] $\frac{1}{2}$ [k] $\frac{1}{4}$ [l] $\frac{1}{3}$
[m] 1 and quarter [n] 2 and half

9
[a] 48 [b] 600 [c] 30 [d] 240
[e] 240 [f] 15

10
[a] 600 [b] 185 [c] 2
[d] 10 , 30 [e] $\frac{1}{2}$ [f] $\frac{1}{3}$
[g] $\frac{1}{4}$ [h] 1 and half

11
[a] minute [b] 30 [c] 14 [d] 3
[e] 20 [f] 21 [g] 30 [h] 40

12
[a] > [b] > [c] = [d] > [e] <
[f] = [g] = [h] > [i] < [j] >
[k] > [l] >

13
[a] The order is : an hour and half , 100 minutes and three hours.
[b] The order is : 1 day and 5 hours , 30 hours , 45 hours and 2 days.
[c] The order is : a day and two hours , 30 hours and two days.
[d] The order is : a day , 25 hours and 48 hours.
[e] The order is : 55 minutes , 1 hour and 75 minutes.
[f] The order is : a year and half , 20 months , 2 years and 25 months.

Think and answer

[a] (1) Start time 1 : 55 P.M.
End time 3 : 55 P.M.
2 hours have passed.
(2) Start time 11 : 15 A.M.
End time 1 : 30 P.M.
2 hours and 15 minutes have passed.
[b] (1) Two matches are equal in time.
(2) Bassem's trip was longer than Ayman's trip.

General exercise on unit four

1
(1) km. (2) km. (3) m. (4) m.
(5) kg. (6) 14 gm. (7) 200 gm.
(8) 365 (9) 37 (10) 24 (11) 29
(12) metre (13) kg. (14) km. (15) 14
(16) 135 (17) minutes.

2
(1) 400 (2) 21 (3) 3 000 (4) 14
(5) 135 (6) 110

3 ① degree Celsius
② 37°C ③ 30 minutes

4 ① 100 , 7 500 ② 1 000 , 25 000
③ 100 , 12 700 ④ 1 000 , 17 000
⑤ 1 000 , 3 000 ⑥ 1 000 , 57 000
⑦ 3 , 450
⑧ 5 000 gm. , 125 gm. , 5 125
⑨ 9 000 gm. , 250 gm. , 9 250
⑩ 6 000 gm. , 250 gm. , 6 250
⑪ 8 000 gm. , 375 gm. , 8 375
⑫ 60 minutes , 25 minutes , 85
⑬ 20 ⑭ 120

5 ① = ② > ③ < ④ <
⑤ = ⑥ < ⑦ > ⑧ <

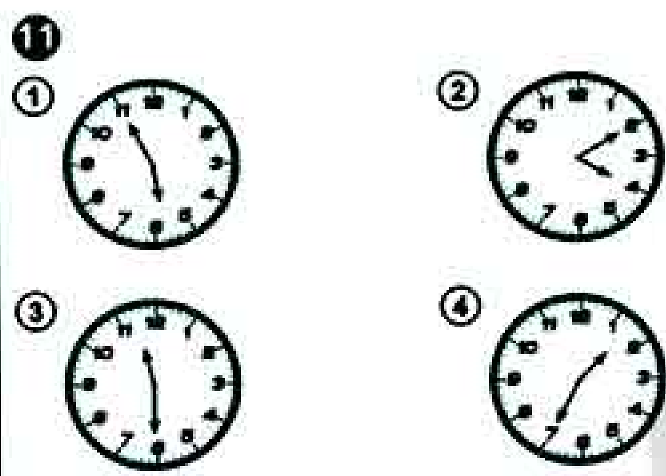
6 ① km. ② minutes. ③ gm.

7 ① The order is : 250 grams , 1 kilogram and 2 400 grams.
② The order is : 200 hours , 10 days and 50 days.
③ The order is : 4 000 centimetres , 500 metres , 2 000 metres and 3 kilometres.

8 ① The ascending order : 20 hours , two days and 80 hours.
The descending order : 80 hours , two days and 20 hours.
② The ascending order : 48 days , two and half months and 80 days.
The descending order : 80 days , two and half months and 48 days.
③ The ascending order : half a metre , 315 cm. and 3 metres and quarter of a metre.
The descending order : 3 metres and quarter of a metre, 315 cm. and half a metre.

9 ① It's 5 to twelve. ② It's quarter to four.
③ It's 5 past six. ④ It's 10 to seven.

10 ① It's quarter past 10
10 : 15
② It's 3 O'clock
3 : 00
③ It's third past one
1 : 20
④ It's half past 4
4 : 30

11


12

① It's six o'clock 6 : 00	② It's half past nine 9 : 30
③ It's quarter to 9 8 : 45	④ It's third past nine 9 : 20

Unit 4 Activities

1 [a] Institution of Meteorology.
[b] (1) Light clothes
(2) Heavy clothes
(3) Regular clothes

2 [a] 29 February.
[b] The two are equal in weight.

3 13 days.

4 6 months

5 • It takes him 60 minutes "1 hour" to walk six kilometres.
• The distance he covers in an hour and a half is 9 kilometres.

ANSWERS OF THE MAIN BOOK

UNIT FIVE

Exercise 17

1

Name	Ahmed	Mohamed	Girgis	Fatama	Mariam
The value of donation	100	300	250	350	150

[a] 350 [b] 100 [c] 250

2 [a]

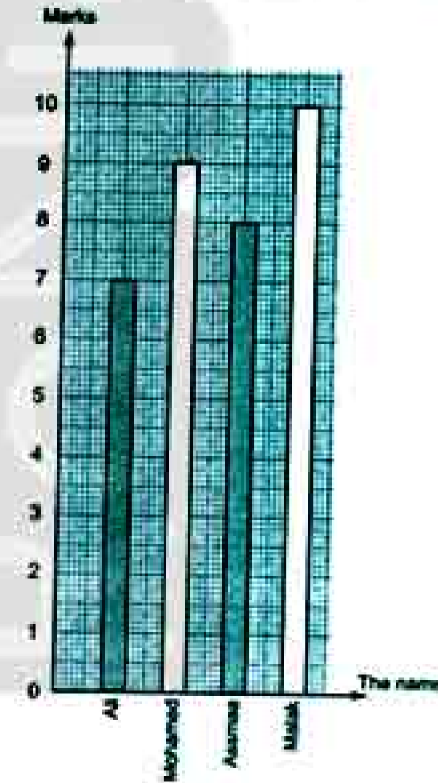
Day	Sat.	Sun.	Mon.	Tues.	Wed.	Thur.
No. of visitors	100	60	40	60	80	120

[b] 80 visitors. [c] Thursday [d] Monday
[e] Sunday and Tuesday

3 [a] 10 pupils [b] Theatre
[c] 12 – 8 = 4 pupils
[d] 12 + 8 + 10 + 6 = 36 pupils
[e] football , theatre

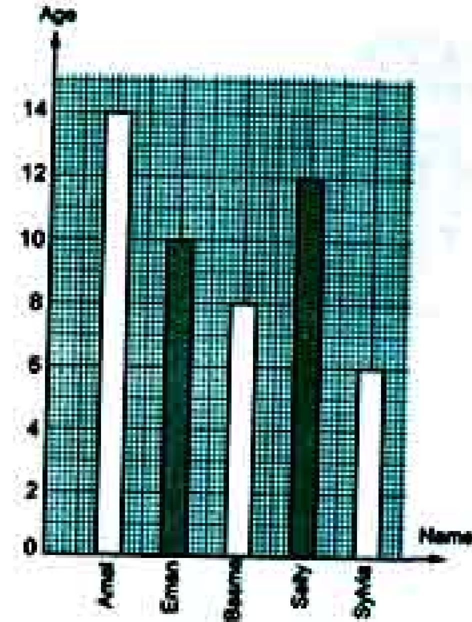
4

The name	Ali	Mohamed	Asmaa	Malak
Marks	7	9	8	10

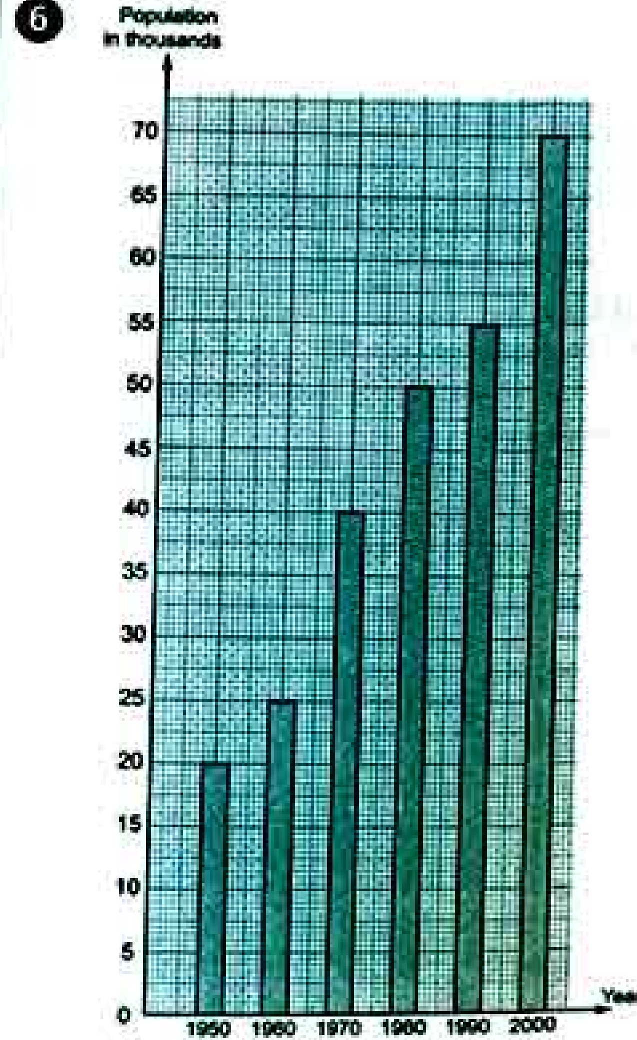


5

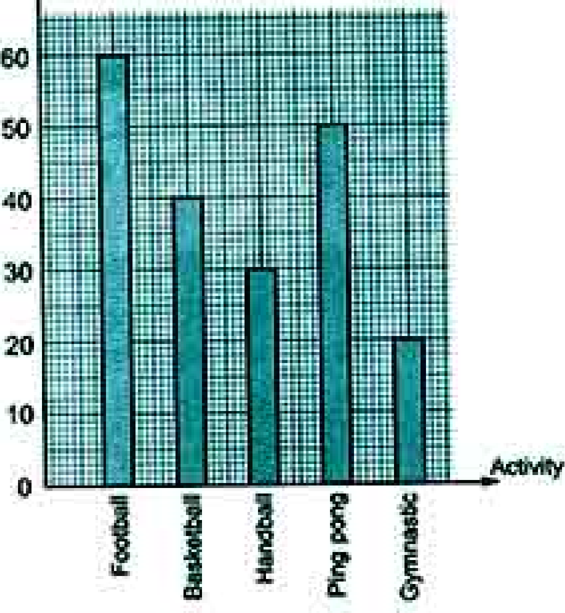
Name	Amal	Eman	Basma	Sally	Sylvia
Age	14	10	8	12	6



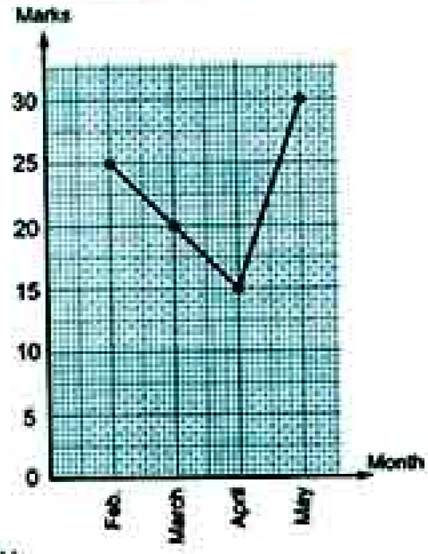
[a] Amal [b] Sylvia

6


7



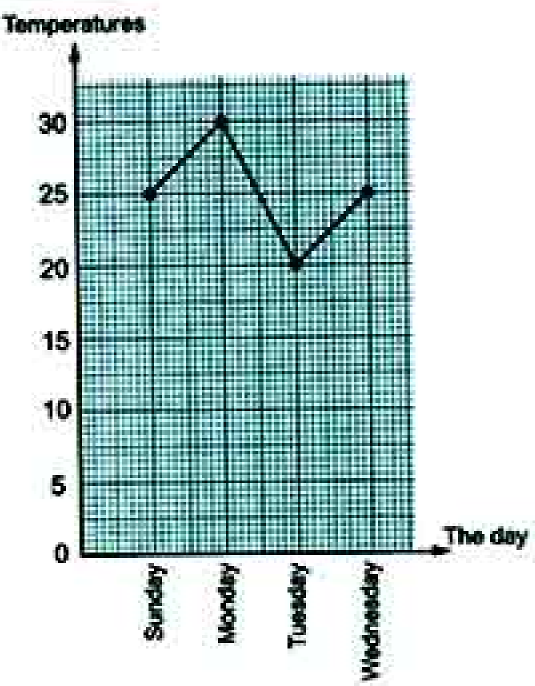
8



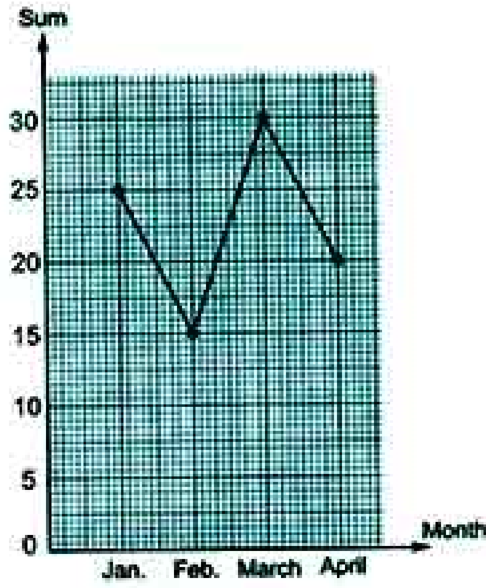
[a] May

[b] The difference = 30 – 15 = 15 marks.

9



10

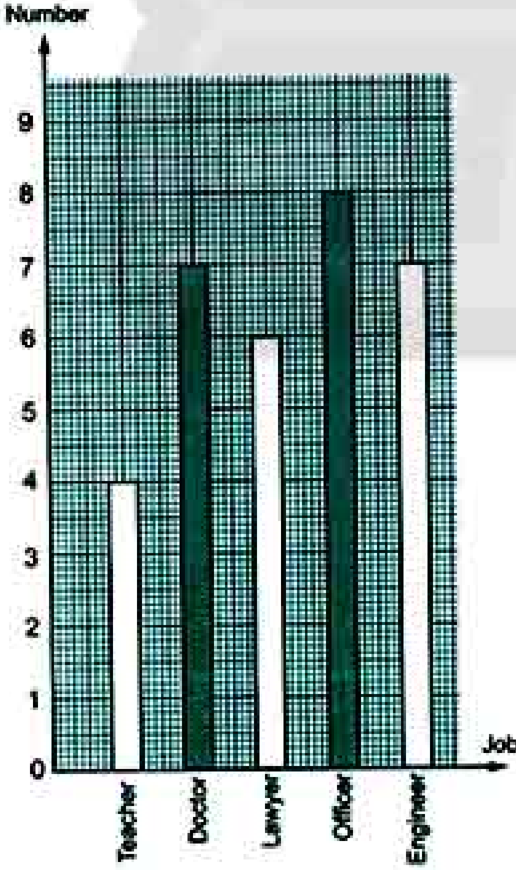


[a] February.

[b] March.

Think and answer

Job	Teacher	Doctor	Lawyer	Officer	Engineer	Total
Number	4	7	6	8	7	32



Exercise 18

1 [a] impossible [b] possible [c] certain
[d] certain [e] possible [f] possible
[g] impossible [h] certain [i] certain
[j] possible [k] impossible
[l] possible

2 [a] impossible [b] certain [c] impossible
[d] certain [e] certain [f] certain
[g] certain [h] possible

3 **The first plate :**
[a] red [b] yellow [c] blue
The second plate :
[a] red [b] yellow [c] blue
The third plate :
[a] blue [b] red [c] yellow

4 [a] First [b] Second [c] Third
[d] First [e] Second

5 [a] great [b] weak [c] weak
[d] impossible [e] moderate

6 [a] certain [b] possible [c] impossible

7 [a] less than 5 (There are other solutions)
[b] odd (There are other solutions)
[c] even (There are other solutions)

8 [a] (1) $\frac{4}{7}$ (2) $\frac{3}{7}$ (3) 0
[b] (1) $\frac{4}{9}$ (2) $\frac{2}{9}$ (3) $\frac{3}{9} = \frac{1}{3}$ (4) 0
[c] (1) $\frac{4}{4} = 1$ (2) 0
[d] (1) $\frac{1}{2}$ (2) $\frac{1}{2}$

9 [a] $\frac{1}{6}$ [b] $\frac{1}{6}$ [c] $\frac{3}{6} = \frac{1}{2}$
[d] $\frac{3}{6} = \frac{1}{2}$ [e] 0 [f] 0
[g] $\frac{6}{6} = 1$

10 [a] $\frac{1}{3}$ [b] $\frac{2}{4} = \frac{1}{2}$ [c] $\frac{3}{5}$

11 [a] 0 [b] 1 [c] $\frac{1}{2}$ [d] $\frac{1}{6}$
[e] $\frac{1}{6}$ [f] $\frac{1}{6}$ [g] $\frac{1}{8}$ [h] $\frac{5}{8}$
[i] $\frac{2}{5}$ [j] $\frac{1}{5}$ [k] $\frac{2}{7}$ [l] $\frac{1}{2}$

Word problems

[a] The probability of the chosen pupil is a boy = $\frac{29}{50}$

[b] The probability of the absent pupil being a boy = $\frac{23}{40}$

[c] The probability of drawing a bad apple = $\frac{2}{6} = \frac{1}{3}$

Think and answer

[a] $\frac{1}{3}$ [b] $\frac{1}{2}$ [c] $\frac{5}{9}$

General exercise on unit five

1

Day	Sat.	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.
Temp.	33	31	30	38	34	29	27

① Friday. ② 38 – 27 = 11
③ Tuesday. ④ Thursday , Friday.

2 **First :**

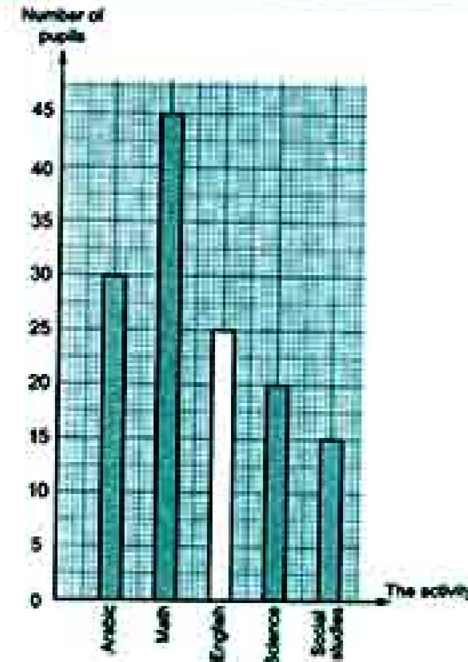
The day	Sat.	Sun.	Mon.	Tues.	Wed.	Thur.
Number of visitors	250	300	100	150	200	100

Second :

① Monday and Thursday ② Sunday
③ 200 ④ 200

3

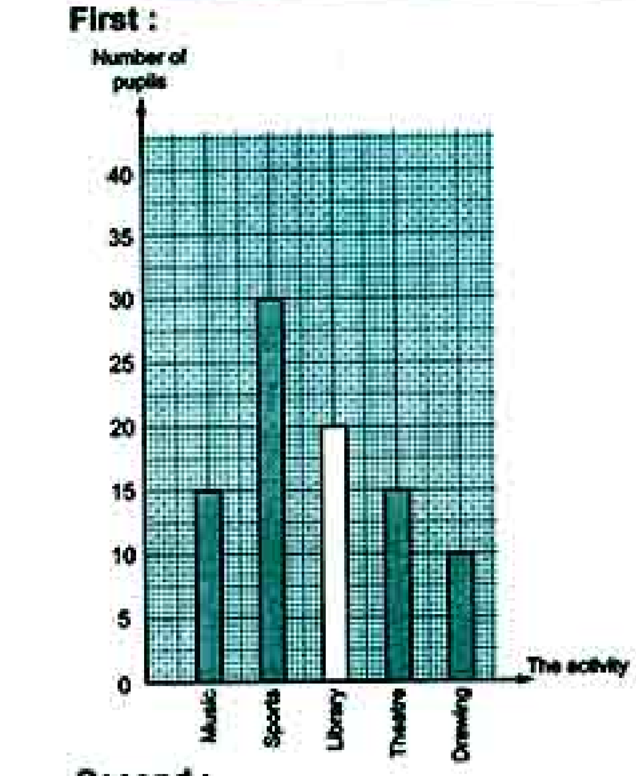
Activity	Arabic	Math	Eng.	Science	Social studies
Number	30	45	25	20	15



❹

The activity	The number
Music	15
Sports	30
Library	20
Theatre	15
Drawing	10

First :



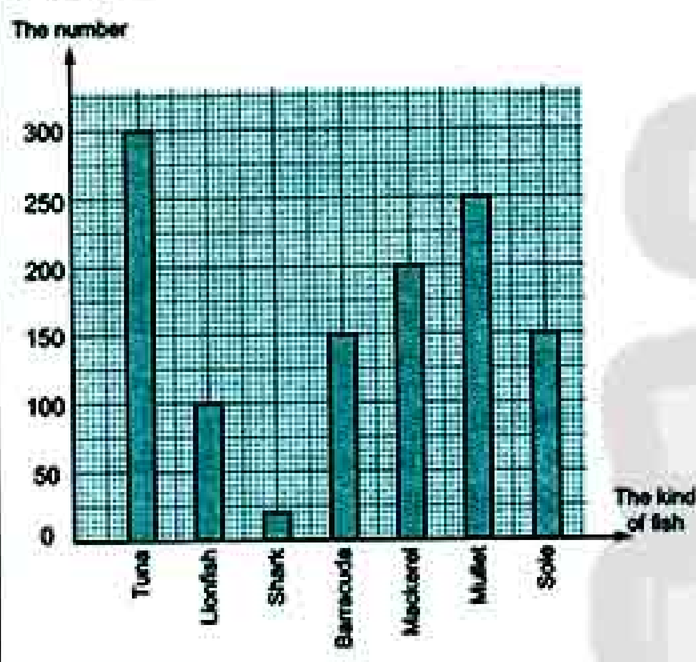
Second :

① drawing ② sports ③ 30
④ 45 ⑤ 5
⑥ The order is : drawing , music , theatre , library and sports.
⑦ The order is : sports , library , theatre , music and drawing.

❺

The number
0
10
20
30
40
50
60
70
80
90
100
Fridge
Oven
Heater
Fan
Mixture
The sets

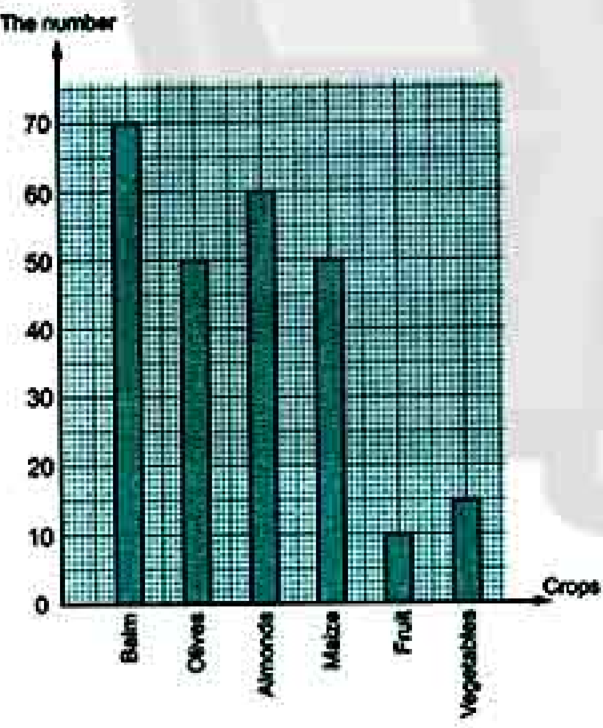
❻ First :



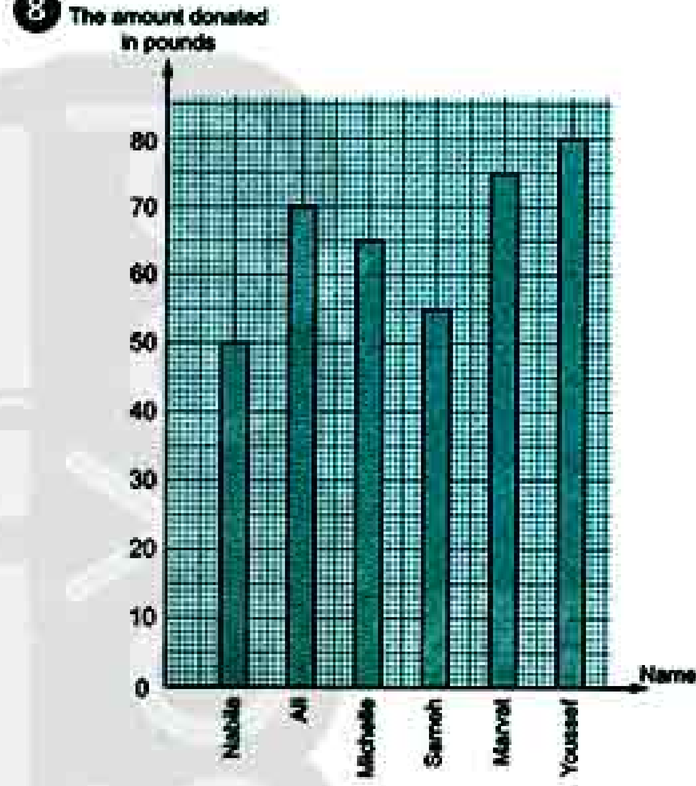
Second :

① Tuna ② Shark
③ Barracuda , Sole ④ 300 , 20 , 320
⑤ 300 , 20 , 280

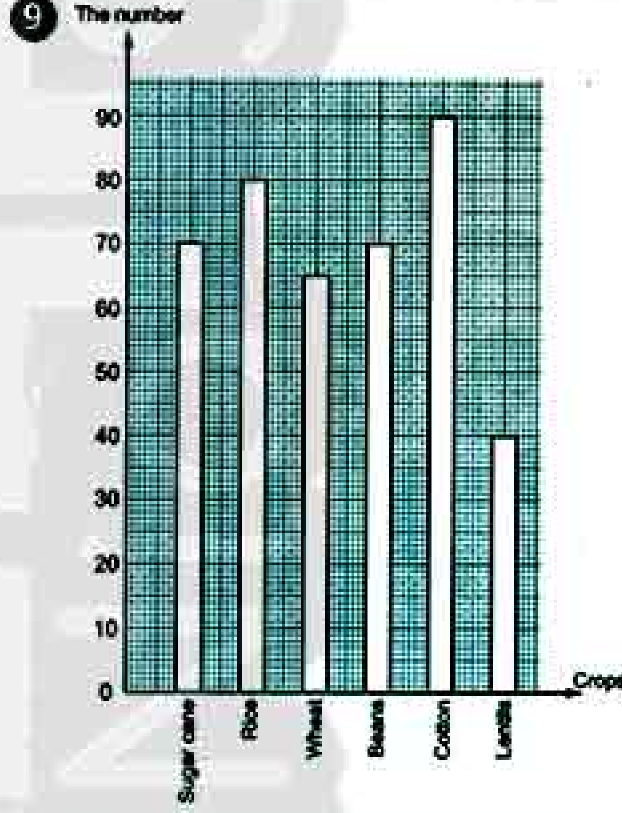
❼



❽



❾



❿ ① impossible ② sure
③ impossible ④ possible
⑤ impossible ⑥ possible
⑦ impossible ⑧ possible
⑨ sure

⓫ ① impossible ② certain
③ possible ④ possible

ANSWERS OF THE MAIN BOOK

⓬ ① $\frac{1}{2}$ ② $\frac{1}{2}$ ③ $\frac{1}{2}$ ④ $\frac{1}{3}$
⑤ 0 ⑥ 1

⓭ ① $\frac{1}{3}$ ② $\frac{5}{12}$ ③ $\frac{2}{3}$ ④ 1
⑤ $\frac{2}{3}$ ⑥ $\frac{7}{12}$ ⑦ $\frac{1}{4}$

⓮ ① $\frac{1}{2}$ ② $\frac{1}{2}$ ③ 1

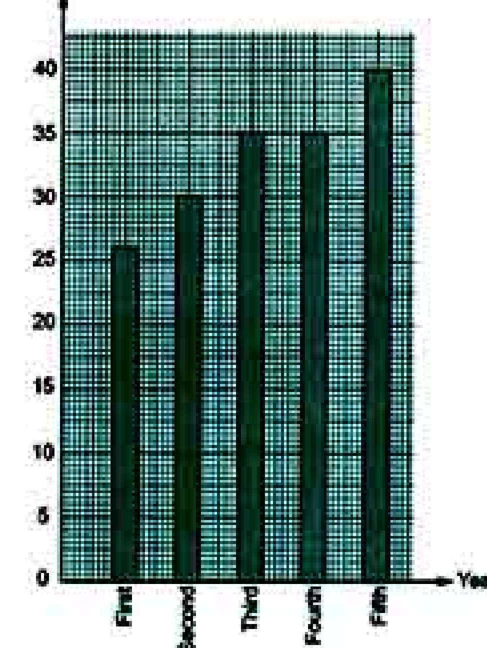
⓯ $\frac{1}{2}$

⓰ ① $\frac{1}{2}$ ② certain ③ $\frac{1}{2}$ ④ 1
⑤ zero ⑥ zero ⑦ $\frac{1}{3}$ ⑧ zero

Unit 5 Activities

❶ [a] measuring.
[b] counting and recording.
[c] counting and recording.

❷ [a]



[b] Try to answer by yourself.
[c] Try to answer by yourself.

❸ [a] $\frac{2}{7}$ [b] $\frac{3}{7}$ [c] Zero
[d] $\frac{2}{7}$ [e] $\frac{4}{7}$
(1) more than 3 letters.
(2) W (There are other solutions).

Answers

of Worksheets



Sheet 1

1. (1) 44 (2) 12 (3) 100 (4) 5
2. (1) < (2) < (3) > (4) =
3. (1) ⟶ (d) (2) ⟶ (c) (3) ⟶ (a) (4) ⟶ (b)
4. (1) 150 (2) 550 (3) 420 (4) 350
5. The price of 3 toys = 10 × 3 = 30 pounds.

Sheet 2

1. (1) 900 (2) 1 500 (3) > (4) 70
2. (1) 6 (2) 2 800 (3) 60 (4) 3 500
3. (1) 1 500 (2) 1 200 (3) 1 400 (4) 170
4.

	3	40	33	560
× 10	30	400	330	5 600
× 100	300	4 000	3 300	56 000

5. The price of apple = 6 × 800 = P.T. 4 800
The price of orange = 5 × 200 = P.T. 1 000
He paid = 4 800 + 1 000 = P.T. 5 800

Sheet 3

1. (1) 7 000 (2) 5 (3) 6 (4) 210
2. (1) 6 (2) 12 000 (3) 18 000 (4) 6 900
3. 12 × 1 000 = 12 000 , 5 × 1 000 = 5 000 , 10 × 9 000 = 90 000 , 30 × 900 = 27 000
The order is : 5 000 , 12 000 , 27 000 and 90 000
4. (1) < (2) < (3) > (4) =
5. The merchant paid = 2 000 × 3 = L.E. 6 000

Sheet 4

1. (1) 1 065 (2) 2 456 (3) 4 923 (4) 768
2. (1) 12 144 (2) 280 (3) 16 000 (4) 768
3. (1) > (2) > (3) < (4) >
4. [a] 256 , 1 024
[b] (1) 0 (2) 8
5. The price of the books = 3 × 17 = 51 pounds.
The total of what Nada paid = 51 + 66 = 117 pounds.

Sheet 5

1. (1) even (2) even (3) 1 638 (4) 18 000
2. (1) 14 (2) 11 200 (3) 9 (4) 41
3. (1) 4 884 , 5 770 , 8 , 700
(2) 5 775 , 123 , 1 221 , 29
4. (1) 68 (even) (2) 309 (odd)
(3) 3 000 (even) (4) 0 (even)
5. The price of dolls = 10 × 12 = L.E.120

Sheet 6

1. (1) 71 (2) 211 (3) 4 211 (4) 502
2. (1) < (2) 10 000 (3) 28 (4) 8
3. (1) 4 (2) 105 (3) 420 (4) 4 500
4. (1) × (2) ✓ (3) × (4) ✓
5. The share of each son = 690 ÷ 3 = 230 pounds.

Sheet 7

1. (1) the sum (2) 12
(3) 24 (4) 24
2. (1) 26 (2) 4 (3) 3 (4) 301

❸ (1) 12 (2) 16 (3) 14 (4) 700

❹ The side length = 120 ÷ 3 = 40 m.

❺ The perimeter of the square = 100 cm.
The perimeter of the rectangle = 90 cm.
The perimeter of the triangle = 95 cm.
The greatest is the perimeter of the square.

Sheet 8

❶ (1) (a) 16 (b) 10
(2) 12 000 (3) 609

❷ (1) 1 010 (2) > (3) 100 (4) 8

❸ (1) ⟶ (d) (2) ⟶ (c)
(3) ⟶ (b) (4) ⟶ (a)

❹ (1) The perimeter = 10 units.
, the area = 8 ◺
(2) The perimeter = 16 units.
, the area = 7 □

❺ The number of pupils in each class
= 450 ÷ 9 = 50 pupils.

Sheet 9

❶ (1) 9 , 13 (2) 7 (3) odd (4) 20

❷ (1) $\frac{7}{8}$ (2) 31 000 (3) $\frac{1}{4}$ (4) 940

❸ [a] (1) 7 (2) 12
[b] (1) Seven ninths. (2) Three eighths.

❹ (1) 203 (2) 6 (3) 1 400 (4) 15

❺

The balls that are shaded	$\frac{5}{8}$	$\frac{6}{9}$
The balls that are not shaded	$\frac{3}{8}$	$\frac{3}{9}$

Sheet 10

❶ (1) $\frac{1}{3} = \frac{2}{6} = \frac{5}{15}$ (2) $\frac{2}{5} = \frac{6}{15} = \frac{8}{20}$
(3) $\frac{6}{7}$ (4) $\frac{3}{4}$

❷ (1) ⟶ (c) (2) ⟶ (d)
(3) ⟶ (b) (4) ⟶ (a)

❸ (1) $\frac{30}{36}$ (2) 5 288 (3) $\frac{1}{3}$ (4) 10

❹ (1) 12 (2) 14 , 4 □
(3) $\frac{1}{4}$

❺ [a] Fig. (1) : $\frac{2}{3} = \frac{6}{9}$

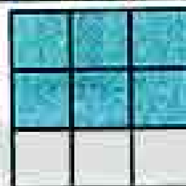
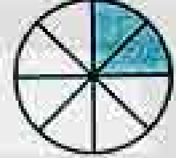


Fig. (2) : $\frac{1}{4} = \frac{2}{8}$



[b] (1) $\frac{4}{7}$ (2) $\frac{6}{7}$

Sheet 11

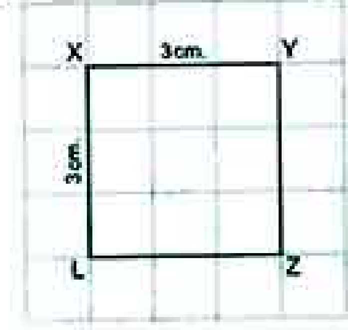
❶ (1) > (2) < (3) < (4) <

❷ (1) 61 (2) 4 (3) 18
(4) length , width

❸ (1) 9 (2) $\frac{1}{14}$ (3) $\frac{1}{5}$ (4) 1

❹ The order is : $\frac{2}{10}$, $\frac{3}{10}$, $\frac{9}{10}$ and 1

❺ (1) 12
(2) 9



Sheet 12

❶ (1) $\frac{13}{14}$ (2) $\frac{3}{11}$ (3) $\frac{45}{45}$ = 1 (4) $\frac{4}{13}$

❷ (1) 104 (2) 50 (3) 300 (4) $\frac{2}{6}$

❸ (1) $\frac{6}{11}$ (2) $\frac{1}{6}$ (3) 1 − $\frac{3}{5}$ (4) <

❹ (1) 12 (2) 18 (3) $\frac{2}{18}$, $\frac{1}{9}$

❺ [a] The order is : $\frac{7}{8}$, $\frac{5}{8}$, $\frac{3}{8}$ and $\frac{1}{8}$
[b] The number = 1 000

Sheet 13

❶ (1) 37° (2) $\frac{3}{4}$ (3) $\frac{5}{6}$ (4) =

❷ (1) 29 (2) The thermometer
(3) 10 (4) 28

❸ (1) ✗ (2) ✗ (3) ✗ (4) ✓

❹ (1) 3 162 (2) 1 008 (3) 700 (4) $\frac{7}{9}$

❺ (1) Monday (2) 5
(3) Wednesday (4) Sunday , Wednesday.

Sheet 14

❶ (1) 9 , 375 (2) 2 100 (3) 20

❷ (1) 210 (2) < (3) kilometre (4) $\frac{8}{10}$

❸ The order is : 2 km. , 1 400 m. , 1 000 m. and half kilometre.

❹ (1) ⟶ (c) (2) ⟶ (d)
(3) ⟶ (a) (4) ⟶ (b)

❺ Ahmed and Omar's shares = $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$
Sarah's share = $1 - \frac{5}{8} = \frac{3}{8}$

Sheet 15

❶ (1) > (2) = (3) > (4) <

❷ (1) 5 (2) 3 070 (3) $\frac{6}{13}$ (4) 12

ANSWERS OF WORKSHEETS

❸ (1) 2 kg. (2) 4 (3) 30 (4) 31

❹ The order is : $\frac{1}{2}$ kg. , 5 kg.
, 5 010 gm. and 5 100 gm.

❺ The sum of the two sides = 50 + 40 = 90 m.
The length of the third side = 120 − 90 = 30 m.

Sheet 16

❶ (1) 25 cm. (2) 365 (3) 14 (4) 36

❷ (1) 50 (2) 506 (3) Celsius (4) 7

❸ (1) It's 25 past one
1 : 25
(2) It's 5 to nine
8 : 55
(3) It's 20 to twelve
11 : 40
(4) It's quarter to three
2 : 45

❹ The order is : 36 hours , 2 days , 72 hours and 2 weeks.

❺

(1)	(2)
3 : 55	quarter past nine
(3)	(4)
25 to 4	6 : 45

Sheet 17

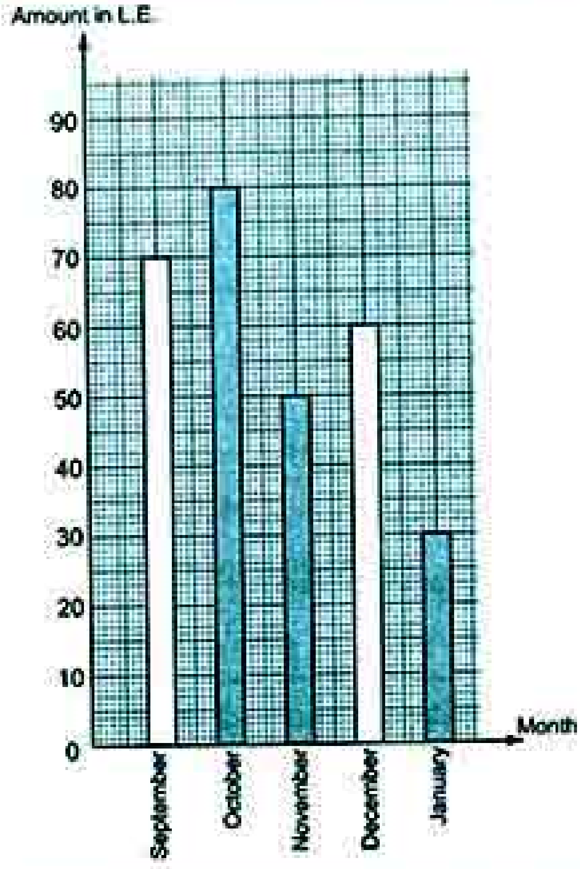
❶ (1) bar-lines , broken line
(2) $\frac{1}{4}$ (3) 21 (4) temperature.

2 (1) 10 003 (2) 6 020 (3) 3 kg. (4) 20

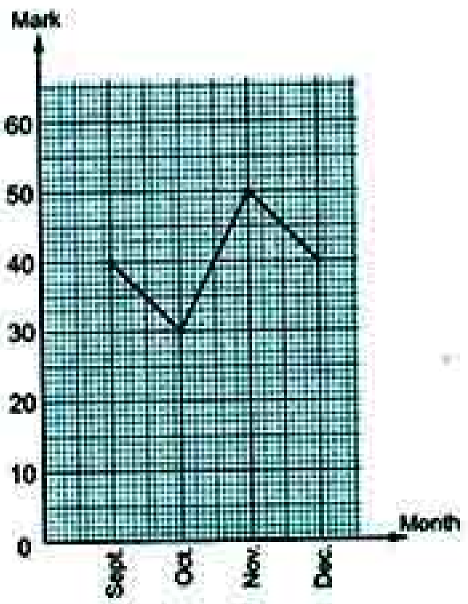
3 (1) 1 (2) 6 000 (3) it's 10 past 5 (4) $\frac{1}{5}$

4

Month	September	October	November	December	January
Amount in L.E.	70	80	50	60	30



5



(1) November

(2) The difference = 50 – 30 = 20 marks.

Sheet 18

1 (1) 7 (2) 12 , 14 (3) 1 (4) 8 650

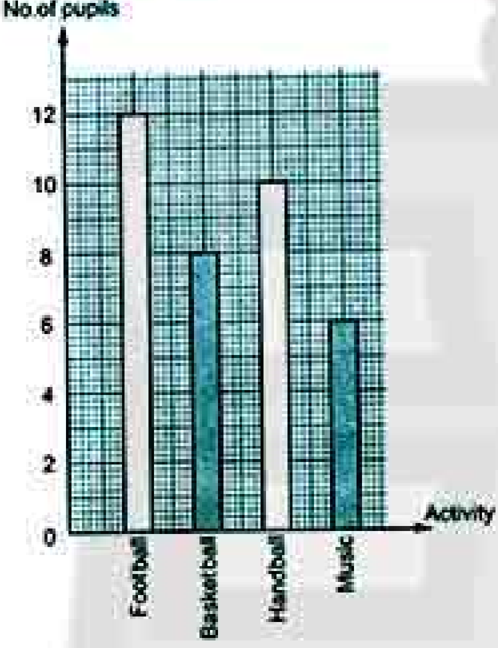
2 (1) > (2) 0 (3) 37° (4) $\frac{4}{7}$

3 (1) impossible (2) possible

(3) certain (4) possible

4

Activity	Football	Basketball	Handball	Music
No. of pupils	12	8	10	6



(1) Football

(2) Music

5 (1) $\frac{1}{6}$ (2) Zero

(3) $\frac{4}{6} = \frac{2}{3}$ (4) $\frac{3}{6} = \frac{1}{2}$

2019 Answers

of Final Examinations





Answers of model examinations of the school book

Model 1

First :

(1) a (2) c (3) b (4) b
(5) a (6) b (7) b (8) c
(9) b (10) b (11) c (12) b
(13) c

Second :

(14) 6 (15) Salwa (16) 920
(17) 40 000 , 400 000 (18) $\frac{1}{2}$ (19) 110

Third :

(20) What Amr paid = 4 × 375 = L.E. 1 500
(21) The order is : 48 hours , 2 days and 2 hours , 5 days.
(22) The order is : $\frac{1}{2}$, $\frac{2}{8}$, $\frac{1}{5}$, $\frac{1}{6}$

Model 2

First :

(1) c (2) b (3) b (4) c
(5) b (6) b (7) c (8) c
(9) b (10) a (11) b (12) b
(13) b

Second :

(14) 1 000 (15) 0 (16) 324 , 972
(17) 4 (18) 128 (19) 9

Third :

(20) 2 500
(21) The share of each one = 963 ÷ 3
= 321 pounds.
(22) The order is : 1 , $\frac{5}{7}$, $\frac{4}{7}$, $\frac{2}{7}$

Model 3

First :

(1) b (2) c (3) c (4) b
(5) b (6) b (7) c (8) a
(9) b (10) b (11) c (12) b
(13) a

Second :

(14) 78 (15) 48 , 96 , 192 (16) Tuesday
(17) $\frac{1}{2}$ (18) 6 462 (19) 15

Third :

(20) Samira has = 20 × 100 + 3 × 200
= 2 600 pounds.
(21) The order is : one month , 24 days and 24 hours.
(22) The order is : $\frac{1}{8}$, $\frac{2}{8}$, $\frac{3}{8}$, $\frac{5}{8}$

Answers of schools' examinations

1 Cairo

1 (1) 10 (2) $\frac{4}{5}$ (3) $\frac{1}{5}$
(4) 8 (5) 300 kg. (6) =
(7) 12 (8) $\frac{5}{6}$ (9) 1
(10) $\frac{2}{7}$ (11) 90 (12) zero
(13) 25 cm.

2 (1) 312 (2) 600 (3) $\frac{1}{6}$
(4) 8 000 (5) 29
(6) 4 + 5 + 8 = 17

3 (1) The share of each brother
= 84 ÷ 4 = 21 notebooks.
(2) The difference = 8 – 4 = 4 hours.
(3) The order is : $\frac{1}{8}$, $\frac{3}{8}$, $\frac{6}{8}$ and $\frac{7}{8}$

2 Cairo

1 (1) 200 (2) > (3) 6
(4) certain (5) 700 (6) 4
(7) 407 (8) $\frac{4}{5}$ (9) 12
(10) 0 (11) 4 (12) 15
(13) 14

2 (1) 215 (2) $\frac{1}{6}$ (3) 3 000
(4) $\frac{4}{7}$ (5) 24 (6) Amal

3 (1) 111
(2) The perimeter of the triangle = 4 + 5 + 8
= 17 cm.
(3) The ascending order is : $\frac{2}{9}$, $\frac{5}{9}$, $\frac{7}{9}$ and 1

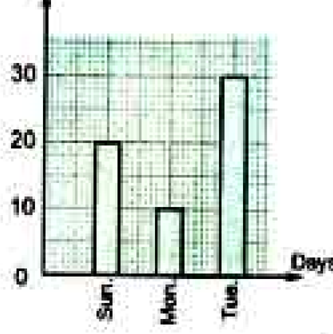
3 Cairo

1 (1) 5 000 (2) 20 (3) $\frac{5}{7}$
(4) 0 (5) 1 (6) 30
(7) 3 (8) 104 (9) 14
(10) 14 (11) 800 (12) $\frac{2}{9}$
(13) 2 (14) 5 (15) 2

2 (16) $\frac{3}{5}$ (17) 44 (18) certain

(19) minutes (20) 37 (21) 110
(22) $\frac{1}{2}$ (23) $\frac{1}{2}$

3 (24) [a] 462 [b] 1 002
(25) The share of each son = 396 ÷ 3
= 132 pounds.
(26)



4 Cairo

1 (1) $\frac{5}{7}$ (2) 135 (3) 100
(4) 4 (5) 37° (6) 1
(7) 14

2 (8) 134 (9) $\frac{4}{5}$ (10) 108
(11) 12 cm. (12) < (13) 2 100

3 (14) 868 (15) It's 10 past twelve.
(16) 9 (17) 321 (18) $\frac{1}{2}$
(19) 3 000

4 (20) He paid = 95 × 6 = L.E. 570
(21) The perimeter = 7 + 3 + 7 + 3 = 20 cm.

5 Cairo

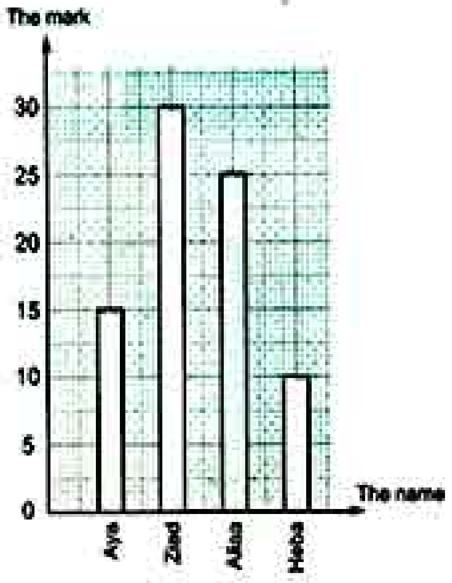
1 (1) < (2) $\frac{4}{5}$ (3) 230
(4) 1 003 (5) 28 (6) 714
(7) 3 (8) 32 (9) 2 553
(10) thermometer (11) = (12) $\frac{13}{6}$
(13) 12

2 (1) 16 (2) 2 800 (3) 2 , 458
(4) $\frac{2}{5}$ (5) 1 005 (6) 6 700

3 (1) The order is : $\frac{1}{8}$, $\frac{2}{8}$, $\frac{4}{8}$ and $\frac{6}{8}$
(2) The perimeter = 6 + 7 + 8 = 21 cm.

3

The name	Aya	Ziad	Allaa	Heba
The mark	15	30	25	10



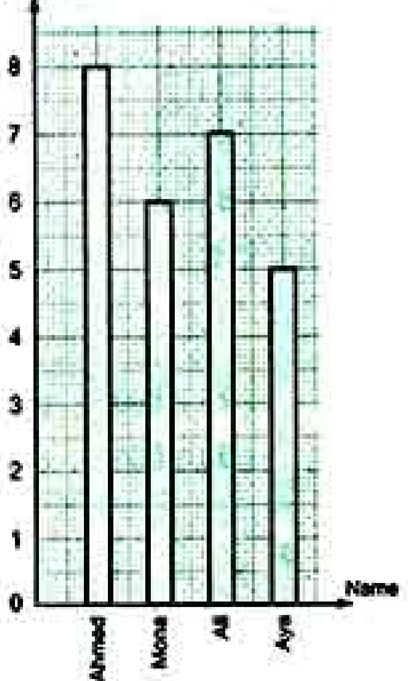
6 Giza

1 (1) 204 (2) $\frac{3}{7}$
(3) $\frac{2}{9}$ (4) 900

2 (1) 2 o'clock. (2) 183 ÷ 3 = 61
(3) 10 cm. (4) 6 000 , 60 000
(5) $\frac{1}{2}$ (6) 5 , 4

3 (1) $\frac{1}{2}$ (2) 48 (3) 1
(4) Metre (5) 37° (6) >
(7) 12 (8) 125 (9) 3 000
(10) 270 (11) 3 (12) 5 × 4

4 (1) The order is : $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$ and $\frac{4}{5}$
(2)

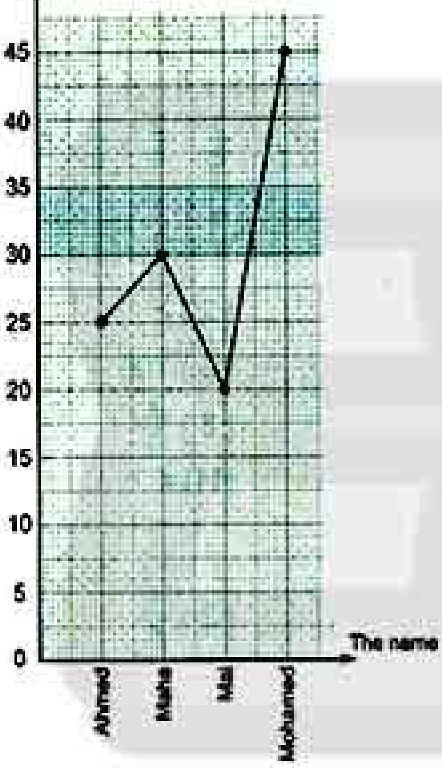


7 Giza

1 (1) even (2) < (3) 420
(4) 12 (5) 80
(6) four eighths (7) impossible
(8) 6 (9) 24 (10) 2 250
(11) $\frac{1}{2}$ (12) 20 (13) $\frac{3}{7}$

2 (1) 0 (2) 4 (3) 2 413
(4) 3 600 (5) 1 296 (6) $\frac{4}{9}$

3 (1) The share of each one = 693 ÷ 3
= 231 pounds.
(2) The order is : 3 m. , 400 cm. , 6 m. and 925 cm.
(3)



8 Giza

1 (1) 24 (2) $\frac{5}{6}$ (3) =
(4) certain (5) 37 (6) 365
(7) < (8) 110 (9) metre
(10) impossible (11) 20 (12) $\frac{1}{3}$
(13) 15

2 (1) 3 o'clock (2) 1 162 (3) 201
(4) $\frac{5}{8}$ (5) $\frac{4}{9}$ (6) sports

3 (1) The perimeter = 2 + 3 + 2 + 3 = 10 cm.
(2) The order is : $\frac{1}{8}$, $\frac{3}{8}$, $\frac{5}{8}$ and $\frac{7}{8}$
(3) He paid = 89 × 3 = 267 pounds.

9 Alexandria

1 (1) 3 000 (2) 110 (3) 308
(4) $\frac{4}{7}$ (5) 0 (6) $\frac{1}{2}$

2 (1) 8 (2) 13 (3) 8
(4) 10 past 4 (5) 480 (6) 4
(7) $\frac{7}{12}$ (8) 14 (9) 6 700
(10) 100 (11) half (12) $\frac{2}{6}$
(13) 103

3 (1) [a] 8 [b] 16
(2) The order is : $\frac{1}{10}$, $\frac{2}{10}$, $\frac{3}{10}$ and $\frac{9}{10}$
(3) 6 462

10 Alexandria

1 (1) certain (2) 211 (3) 37
(4) 0 (5) 5 000 (6) 85
(7) 311 (8) 700 (9) $\frac{3}{4}$
(10) = (11) 6 (12) 26
(13) 3

2 (1) 9 000 (2) $\frac{6}{7}$ (3) 203
(4) 4 (5) $\frac{3}{7}$ (6) 15

3 (1) The order is : $\frac{1}{13}$, $\frac{3}{13}$, $\frac{5}{13}$ and $\frac{7}{13}$
(2) The number of apples in each box
= 84 ÷ 4 = 21 apples.
(3)

Name	Hany	Heba	Mona	Rana
Money	35	25	20	30

11 El-Kalyoubia

1 (1) 30 (2) $\frac{7}{9}$ (3) <
(4) 4 (5) $\frac{2}{7}$ (6) $\frac{1}{2}$
(7) 6 (8) 16 (9) 756
(10) 60 (11) 24 (12) 700
(13) $\frac{5}{6}$

2 (14) 312 (15) 3 000 , 30 000
(16) 70 (17) 4
(18) 0 (19) 24 + 4 = 28

3 (20) The ascending order is :
$\frac{3}{8}$, $\frac{5}{8}$, $\frac{6}{8}$ and $\frac{7}{8}$
(21) The price of all cards = 4 × 32
= 128 pounds.
(22) The perimeter = 2 + 3 + 4 + 5 = 14 cm.

12 El-Sharkia

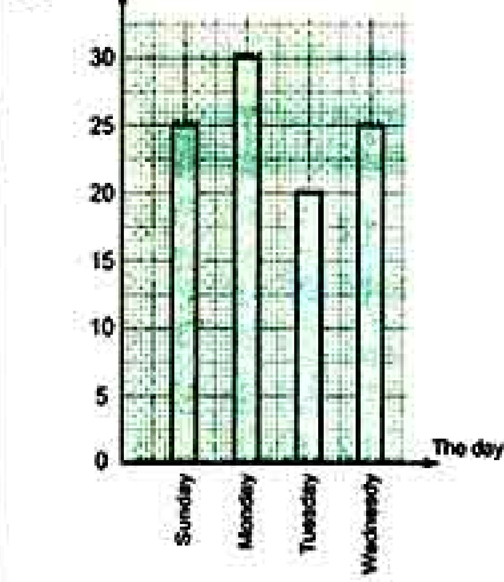
1 (1) 1 350 (2) 49 (3) $\frac{8}{5}$
(4) $\frac{1}{2}$ (5) 37 (6) $\frac{1}{2}$
(7) 9 090 (8) 5 250 (9) $\frac{1}{2}$
(10) 8 (11) 137 (12) 407
(13) 201

2 (1) 48 (2) 10 (3) 0
(4) 100 (5) 90 (6) 48

3 The money he paid = 89 × 3 = 267 pounds.

4 [a] 6 [b] It's half past three.

5



13 El-Monofia

1 (1) impossible (2) 50 (3) 13 600
(4) certain (5) 204 (6) 5 000
(7) 2 520 (8) cm. (9) 180
(10) 20 (11) 3 (12) 12
(13) $\frac{5}{6}$

❷ (1) 9 (2) 1 (3) 212
(4) 312 (5) $\frac{1}{2}$ (6) 4

❸ [a] The price of the cloth = 89 × 3 = 267 pounds
[b] The order is : $\frac{1}{6}$, $\frac{2}{6}$, $\frac{3}{6}$ and $\frac{4}{6}$
[c] The perimeter = 3 + 3 + 3 = 9 cm.

14 El-Gharbia

❶ (1) 312 (2) 20 (3) >
(4) $\frac{1}{2}$ (5) × (6) 6
(7) 25

❷ (1) 5 361 (2) 24 (3) impossible
(4) 51 (5) 37 (6) multiplying

❸ (1) 944 (2) 6 (3) 90
(4) $\frac{1}{2}$ (5) 45 000 (6) 1

❹ (1) The perimeter = 14 units.
(2) The area = 12 □

❺ [a] The order is : $\frac{3}{8}$, $\frac{5}{8}$, $\frac{7}{8}$ and 1
[b] What Ahmed paid = 375 × 4 = L.E. 1 500

15 El-Dakahlia

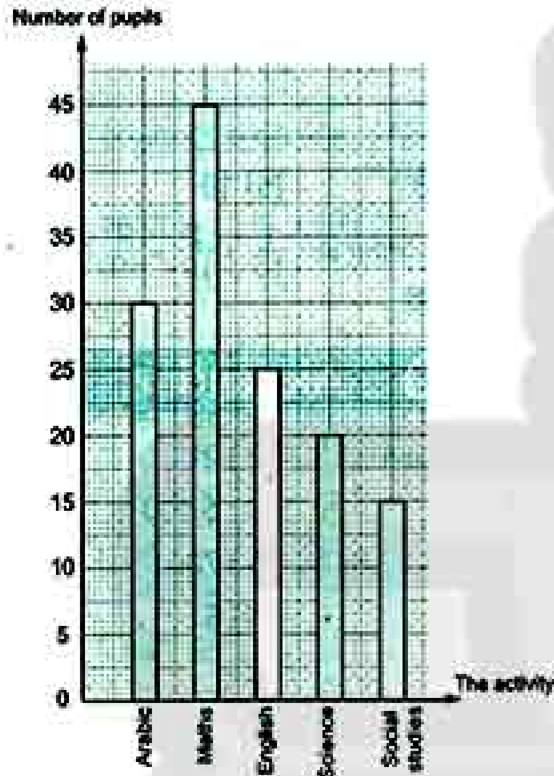
❶ (1) 15 (2) 1 (3) 2
(4) 901 (5) $\frac{5}{7}$
(6) $\frac{1}{8}$, $\frac{3}{8}$, $\frac{5}{8}$ and $\frac{7}{8}$

❷ (1) 54 (2) 530 (3) 15
(4) $\frac{1}{6}$ (5) 1 100 (6) 61
(7) $\frac{0}{3}$ (8) $\frac{1}{2}$ (9) sum
(10) 16 (11) 1 (12) 20
(13) 9

❸ (1) The number of students = 287 + 7
= 41 students.
(2) The length of the third side = 24 – (7 + 8)
= 9 cm.

(3)

Activity	Number
Arbic	30
Maths	45
English	25
Science	20
Social studies	15



16 Port Said

❶ (1) 3 (2) 6 000 (3) 6
(4) 4 000 , 40 000
(5) 0 (6) Tuesday

❷ (1) 10 (2) 37° (3) 20 cm.
(4) Metre (5) 247 (6) 12
(7) certain (8) quarter past 7
(9) 600 (10) 17 (11) 3
(12) $\frac{5}{6}$ (13) $\frac{1}{2}$

❸ (1) The share of each son = 369 ÷ 3 = 123 pounds.
(2) [a] 8 [b] 12
(3) The order is : 24 hours , 24 days and month

17 Damietta

❶ (1) 60 (2) 5 361 (3) =
(4) 4 (5) 1 (6) <

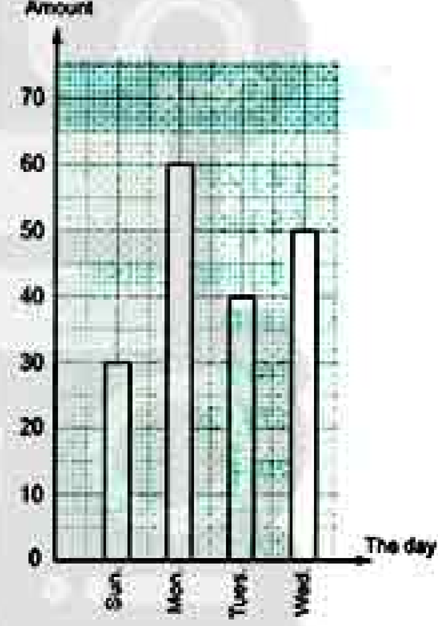
(7) 5 (8) 37° (9) 29
(10) 57 000 (11) 0
(12) centimetre (13) seven o'clock

❷ (1) 20 (2) 60 (3) 3
(4) 100 (5) $\frac{4}{5}$ (6) 3 175

❸ (1) The share of each one = 226 ÷ 2
= 113 pounds.
(2) The ascending order is : $\frac{2}{10}$, $\frac{3}{10}$, $\frac{1}{2}$ and $\frac{9}{10}$

(3)

The day	Amount
Sunday	30
Monday	60
Tuesday	40
Wednesday	50

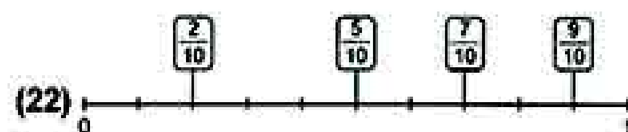


18 Kafr El-Sheikh

❶ (1) 100 (2) 1 (3) 37 (4) >
(5) 2 005 (6) 5 (7) > (8) 6
(9) $\frac{1}{4}$ (10) < (11) = (12) $\frac{1}{2}$
(13) 8 : 55

❷ (14) 100 (15) 0
(16) 18 000 pounds. (17) 8 ◺ , 4 □
(18) 5 070 (19) 20

❸ (20) [a] 5 262 [b] 402
(21) The share of each of them = 206 ÷ 2
= L.E. 103

(22)


19 El-Beheira

❶ (1) 7 500 (2) 19 (3) <
(4) 22 (5) certain (6) 3
(7) 13 (8) $\frac{1}{2}$ (9) 37
(10) 16 (11) 100 (12) 20
(13) 1

❷ (14) 8 375 (15) 0 (16) 50
(17) 620 (18) $\frac{1}{2}$ (19) $\frac{2}{7}$

❸ (20) The order is : $\frac{1}{8}$, $\frac{4}{8}$, $\frac{7}{8}$ and 1
(21) She paid = 175 × 6 = 1 050 pounds.
(22) [a] 6 [b] 8

20 El-Fayoum

❶ (1) $\frac{1}{6}$ (2) $\frac{1}{2}$ (3) 6
(4) > (5) possible (6) <
(7) 5 (8) 100 (9) 125 × 5
(10) 10 (11) 9 (12) 17
(13) 37

❷ (14) $\frac{5}{7}$ (15) $\frac{1}{2}$ (16) 5 275
(17) quarter past seven (18) 78
(19) certain

❸ (20) The order is : 48 hours , (2 days and 2 hours) and 5 days.
(21) The share of each one = 963 ÷ 3
= 321 pounds.
(22) The perimeter = 10 length units.
The area = 6 □

21 Beni Suef

❶ (1) 505 (2) 1 000 (3) 105
(4) 3 000 (5) 14 (6) 0
(7) 8 (8) impossible (9) 20
(10) < (11) 258 (12) 12
(13) 37°

❷ (1) $\frac{1}{2}$ (2) $\frac{9}{9}$, 1 (3) 20
(4) 2 (5) 17 (6) 9 660

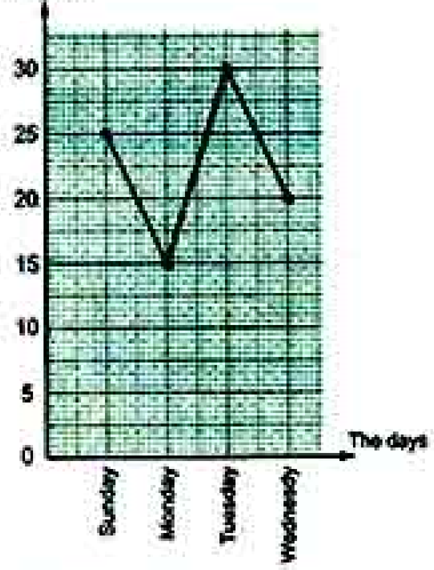
❸ (1) The order is : $\frac{1}{2}$, $\frac{4}{7}$, $\frac{6}{7}$ and 1
(2) She paid = 175 × 6 = 1 050 pounds.
(3) [a] The area = 5 □
[b] The area = 10 ◺

22 El-Menia

❶ (1) 700 (2) 5 000 (3) 4 002
(4) $\frac{5}{6}$ (5) 48 (6) 22
(7) zero (8) 575 (9) 21
(10) 37° (11) hour (12) 6
(13) 1 200

❷ (14) 1 (15) 1 (16) 10
(17) 8 000 (18) $\frac{7}{9}$
(19) six o'clock

❸ (20) The order is : $\frac{7}{8}$, $\frac{5}{8}$, $\frac{3}{8}$ and $\frac{1}{8}$
(21) The share of each son = 226 ÷ 2
= 113 pounds.
(22)



23 Souhag

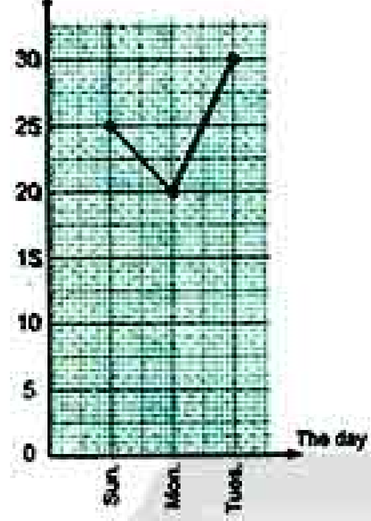
❶ (1) $\frac{5}{7}$ (2) < (3) 24
(4) 37° (5) 24 (6) 16
(7) 10 (8) 6 (9) >
(10) 1 010 (11) $\frac{1}{4}$ (12) 5
(13) 13 600

❷ (1) $\frac{2}{5}$ (2) 321 (3) 1
(4) 1 000 (5) 12 (6) 70

❸ The descending order is : $\frac{9}{10}$, $\frac{3}{10}$, $\frac{2}{10}$ and $\frac{1}{10}$

❹ She paid = 175 × 6 = L.E. 1 050

❺

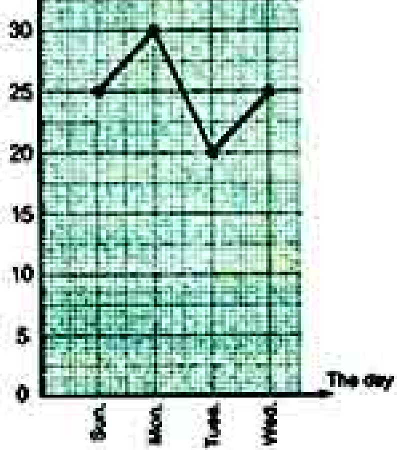


24 Qena

❶ (1) 10 (2) 200 (3) <
(4) 8 (5) < (6) 1 800
(7) 37 (8) impossible (9) 50
(10) 300 (11) 0 (12) 7
(13) 618 (14) 2 (15) 301
(16) 16 (17) 120 (18) 131
(19) > (20) $\frac{2}{5}$

❷ (21) 625 (22) 1 (23) certain
(24) 26 (25) 6 (26) 36
(27) three sevenths (28) 4 560
(29) 26 000

❸ (30) The ascending order is : $\frac{1}{9}$, $\frac{5}{9}$, $\frac{7}{9}$ and $\frac{8}{9}$
(31)



25 Aswan

❶ (1) 10 (2) $\frac{4}{7}$ (3) 4
(4) 1 000 (5) 20 (6) 3 000
(7) $\frac{5}{8}$ (8) 6 (9) >
(10) 0 (11) 24 (12) 4
(13) $\frac{1}{2}$

❷ (1) 468 (2) 400 (3) $\frac{2}{9}$
(4) 312 (5) $\frac{1}{2}$ (6) 1

❸ (1) Ahmed paid = 175 × 6 = 1 050 pounds.
(2) The ascending order is : $\frac{1}{8}$, $\frac{3}{8}$, $\frac{5}{8}$ and $\frac{7}{8}$
(3) The perimeter = 3 + 2 + 3 + 2 = 10 cm.

2018 Answers

of Final Examinations







Answers of schools' examinations

1 Cairo

1 (1) 1 (2) 410 (3) $\frac{5}{7}$
(4) 5 (5) 150 (6) 7
(7) $\frac{1}{2}$ (8) 6 (9) 37

2 (10) $\frac{3}{10}$ (11) 6 (12) 24
(13) 4 211 (14) 1 656 (15) $\frac{3}{4}$
(16) Tuesday

3 (17) $\frac{1}{7}$ (18) 7 (19) 5
(20) 9 (21) $\frac{1}{6}$ (22) 24
(23) 0 (24) 12 (25) 51
(26) quarter to 10

4 [a] The perimeter of square BEDC
$= 4 \times 4 = 16$ cm.
[b] The perimeter of the figure AEDC
$= 3 + 5 + 4 + 4 + 4 = 20$ cm.

5 The share of each one $= 690 \div 3$
$= 230$ pounds.

2 Cairo

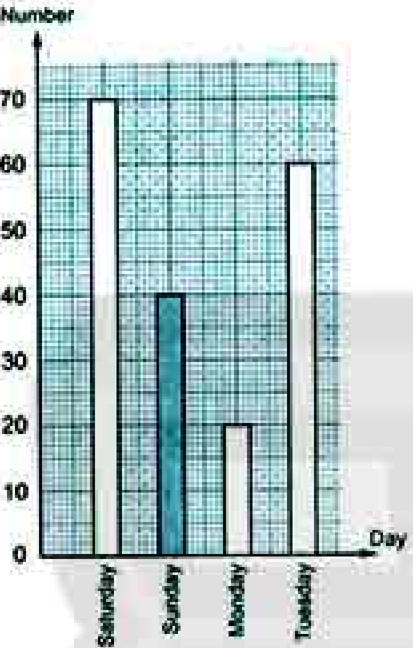
1 (1) 15 (2) 211 (3) 120
(4) thermometer (5) 0
(6) 204 (7) 21 (8) $\frac{4}{7}$
(9) 800 (10) < (11) 12
(12) 43 000 (13) = (14) $\frac{1}{2}$
(15) $\frac{2}{3}$ (16) 20 (17) <
(18) kilogram (19) certain
(20) half past seven (21) 1
(22) 33 (23) December (24) 10
(25) February

2 (1) $\frac{4}{9}$ (2) 8 536 (3) $\frac{1}{5}$
(4) 12 , 15 (5) 212 (6) 15
(7) 2 (8) 5 720 (9) 30
(10) 8

3 [a] The order is : $\frac{2}{9}$, $\frac{5}{9}$, $\frac{6}{9}$ and 1
[b] The share of each son $= 3\,200 \div 4 =$ L.E. 800

4 [a] (1) The perimeter = 10 units.
(2) The perimeter $= 4 + 5 + 3 = 12$ cm.
[b]

Day	Saturday	Sunday	Monday	Tuesday
Number	70	40	20	60



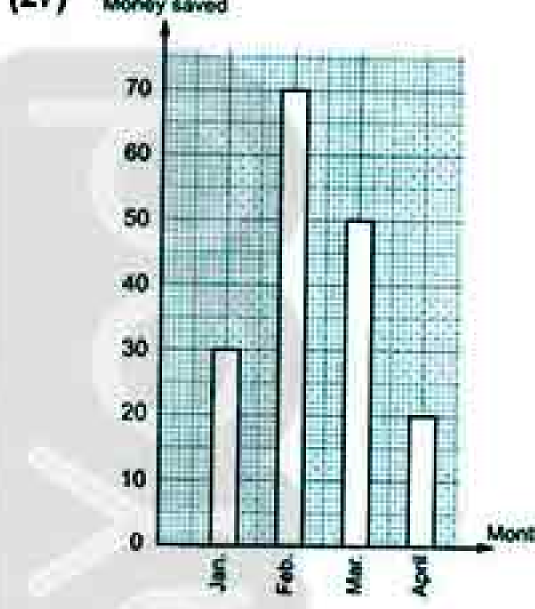
3 Cairo

1 (1) $\frac{5}{6}$ (2) 340 (3) >
(4) 4 (5) 1 (6) 78 000
(7) 5 (8) 24 (9) 3 100
(10) 37 (11) impossible (12) 4
(13) 6 600 (14) 1 209

2 (15) 0 (16) 8 (17) 30
(18) 4 , 381 (19) 1 (20) 18
(21) 11 (22) 100
(23) kilograms "There are other solutions"
(24) $\frac{5}{8}$

3 (25) The order is : $\frac{1}{2}$ km. , 2 km. , 2 250 m. and 3 500 m.
(26) The share of each son $= 360 \div 3$
$= 120$ pounds.

(27)

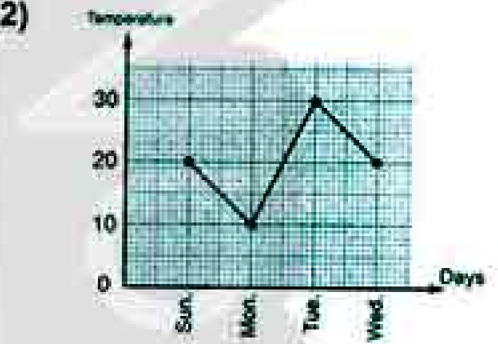


4 Giza

1 (1) 24 (2) > (3) $\frac{2}{7}$
(4) 6 000 (5) $\frac{5}{9}$ (6) 258
(7) 37° (8) 35 (9) $\frac{1}{2}$
(10) 15 (11) 8 000 (12) 1
(13) 30 (14) 0 (15) 6
(16) half past 4 (17) $\frac{1}{2}$
(18) 20

2 (1) 20 (2) 5 240 (3) 14 490
(4) 20 (5) 1
(6) 15 , 1 500 (7) 1 002 (8) $\frac{3}{5}$

3 (1) The share of each son $= 396 \div 3$
$= 132$ pounds.
(2)



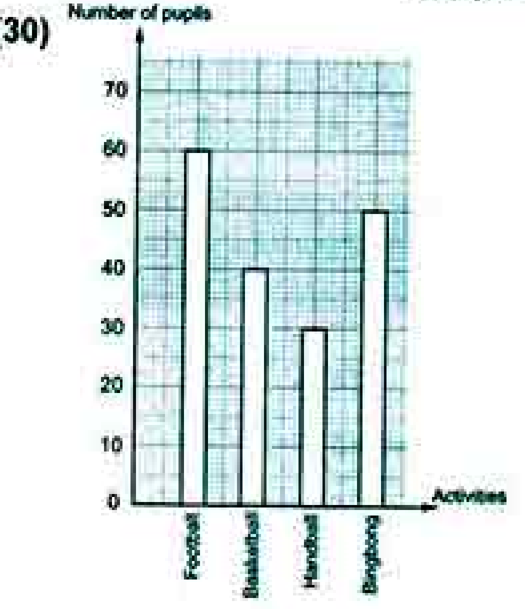
5 Giza

1 (1) 310 (2) 20 (3) 37
(4) 346 (5) 2 500 (6) 0

(7) 1 (8) Metre (9) $\frac{1}{2}$
(10) < (11) = (12) 21
(13) 7 (14) certain (15) >
(16) 50 000 (17) 9 (18) 20

2 (19) 84 (20) 7 , 250 (21) $\frac{4}{5}$
(22) 6 (23) 12 (24) 7
(25) 120 (26) $\frac{7}{8}$

3 (27) The order is : $\frac{1}{8}$, $\frac{3}{8}$, $\frac{5}{8}$ and 1
(28) 401
(29) The share of each son $= 200 \div 4$
$= 50$ pounds.
(30)



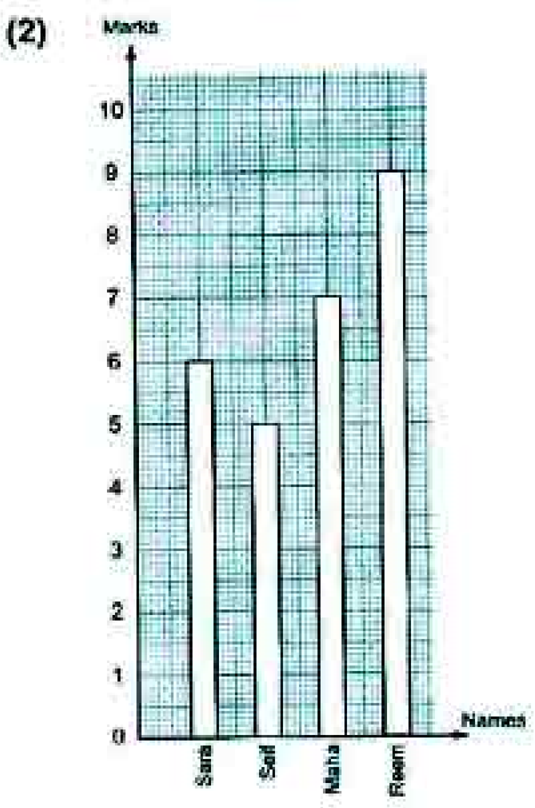
6 Alexandria

1 (1) > (2) 830 (3) $\frac{1}{3}$
(4) 4 150 (5) $\frac{1}{4}$ (6) 37°
(7) 6 (8) 0 (9) 15
(10) 15 (11) $\frac{1}{2}$ (12) 13
(13) 2 (14) 201 (15) even
(16) 1 (17) 9 (18) $\frac{5}{6}$
(19) <

2 (1) 1 , 40 (2) 310 (3) 22 , 25
(4) $\frac{4}{5}$ (5) 5 past eight.
(6) 500 (7) 48

3 (1) The order is : $\frac{3}{10}$, $\frac{4}{10}$, $\frac{7}{10}$, $\frac{9}{10}$ and 1

(2)



7 El-Kalyoubia

1 (1) < (2) $\frac{1}{2}$ (3) $\frac{1}{2}$
(4) = (5) 4 (6) $\frac{6}{10}$
(7) impossible (8) = (9) cm.
(10) 3 110 (11) 1 (12) >
(13) 9 (14) 4 00 (15) 25
(16) 6 (17) 0 (18) 36
(19) =

2 (1) 6 008 (2) 30 (3) $\frac{5}{9}$
(4) 1 (5) 1 530 , 1 535
(6) $\frac{1}{3}$ (7) even

3 (1) [a] The perimeter of a triangle ABC
= 5 + 3 + 4 = 12 cm.
[b] The perimeter of whole shape AEDC
= 5 + 3 + 4 + 4 + 4 = 20 cm.
(2) The share of each son = 630 ÷ 3
= 210 pounds.

8 El-Sharkia

1 (1) 1 (2) > (3) km.
(4) $\frac{4}{7}$ (5) 72 (6) 135
(7) 356 (8) 1 (9) sure
(10) 243 (11) thermometer (12) 4
(13) 6 (14) 12 (15) $\frac{1}{6}$
(16) 15 (17) = (18) 230
(19) 15

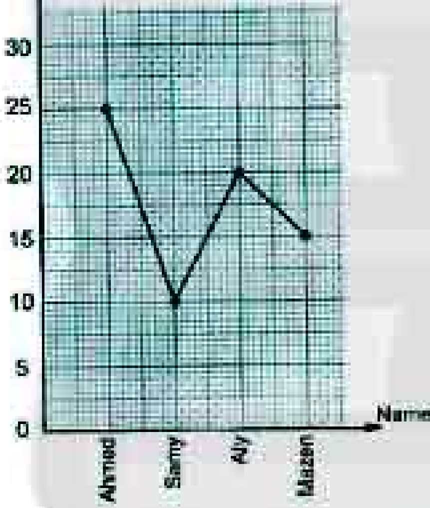
2 (20) 3 (21) 2 , 0 (22) $\frac{3}{8}$
(23) 35 (24) 9 , 9 000 (25) $\frac{2}{7}$
(26) 401

3 (27) The share of each son = 930 ÷ 3
= 310 pounds.

(28) [a]

Name	Ahmed	Samy	Aly	Mazen
Marks	25	10	20	15

[b]



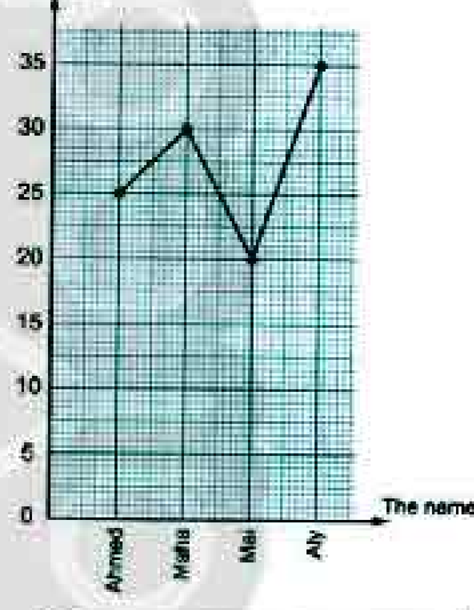
9 El-Monofia

1 (1) $\frac{4}{5}$ (2) kg. (3) $\frac{1}{2}$
(4) 37 (5) $\frac{1}{2}$ (6) 11
(7) 24 (8) < (9) certain
(10) < (11) 365 (12) $\frac{1}{10}$
(13) 6 (14) = (15) 8
(16) = (17) 17 (18) $\frac{4}{7}$
(19) $\frac{5}{15}$

2 (1) 49 (2) $\frac{1}{5}$ (3) 6 , 60
(4) quarter to four (5) 3 500
(6) 36 (7) 3

3 (1) Amr paid = 375 × 4 = L.E. 1 500

(2)



10 El-Gharbia

1 (1) 2 003 (2) 3 432 (3) $\frac{4}{7}$
(4) 24 (5) 6 (6) hour
(7) <

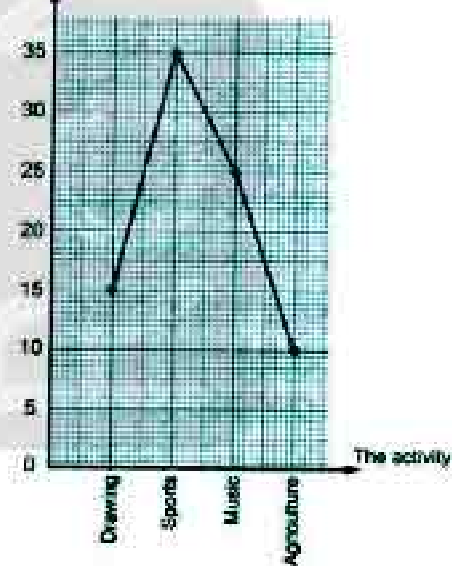
2 (1) half (2) 50 (3) 3
(4) 4 (5) < (6) impossible

3 (1) 5 (2) 6 (3) 37
(4) 110 (5) km. (6) $\frac{9}{9}$

4 (1) twenty to twelve (2) 21
(3) even (4) 15 (5) 1
(6) 525 (7) 8 , 4

5 (1) The perimeter = 2 + 1 + 1 + 2 + 3 + 3
= 12 cm.

(2)



11 El-Dakahlia

1 (1) 11 (2) 37 (3) >
(4) 303 (5) 3 (6) data
(7) < (8) 16 (9) 12
(10) 290 (11) 1 (12) 6 : 50
(13) = (14) 4 (15) certain
(16) 5 (17) $\frac{1}{2}$ (18) 4

2 (1) 12 (2) 24 (3) 666
(4) 3 015 (5) $\frac{1}{3}$ (6) 9 , 9 000

3 (1)

Pupil	Ahmed	Omar	Sarah	Hana
Mark	15	5	20	10

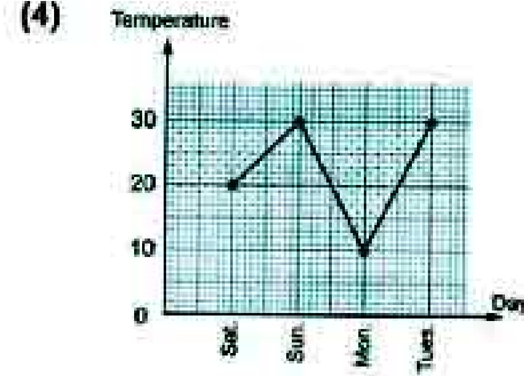
(2) [a] 12 [b] 26
(3) [a] 2 422 [b] 612

12 Ismailia

1 (1) $\frac{2}{5}$ (2) 28 (3) $\frac{4}{5}$
(4) 3 (5) 12 (6) 396
(7) 57 (8) 5

2 (1) < (2) $\frac{1}{5}$ (3) 12
(4) 1 (5) 5 (6) 3 000
(7) < (8) 16 (9) 0
(10) 37 (11) impossible (12) $\frac{1}{2}$
(13) 12 (14) ✓ (15) 24
(16) 9 (17) ✗ (18) km.
(19) 24 (20) >

3 (1) 3 (2) 1 104 (3) 14
(4)

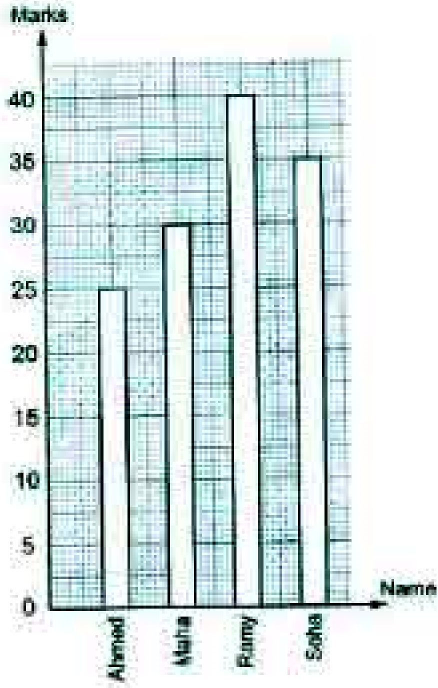


13 Suez

1 (1) 3 000 (2) 37 (3) <
(4) 1 (5) 15 (6) 0
(7) 25 (8) 1 010 (9) 20
(10) 15 (11) $\frac{1}{2}$ (12) 12
(13) 2 008 (14) 8 (15) kg.
(16) 1 (17) > (18) 1
(19) 4 700 (20) $\frac{3}{5}$

2 (1) 500 (2) 5 (3) $\frac{2}{9}$
(4) 8 , 8 000 (5) 2 (6) 20 , 25
(7) 0 (8) 9

3 (1) 944
(2) The order is : $\frac{1}{6}$, $\frac{1}{5}$, $\frac{1}{3}$ and $\frac{1}{2}$
(3) The share of each one = 183 ÷ 3
= 61 pieces.
(4)



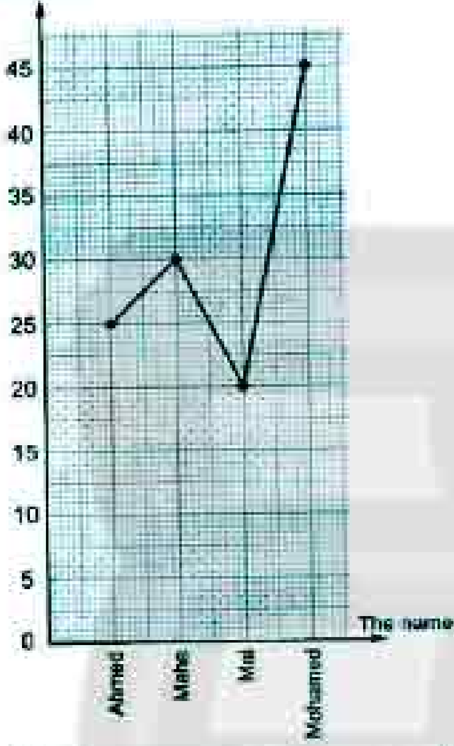
14 Port Said

1 (1) = (2) 5 361 (3) 37°
(4) 470 (5) zero (6) 14
(7) kilogram (8) 3 (9) 13
(10) 5 o'clock

2 (1) 6 250 (2) $\frac{1}{2}$ (3) 639
(4) $\frac{3}{4}$ (5) $\frac{1}{3}$ (6) 6 , 6 000
(7) 24 (8) 7 500 (9) 111
(10) 10

3 [a] The order is : $\frac{1}{8}$, $\frac{2}{8}$, $\frac{5}{8}$ and $\frac{6}{8}$
[b] (1) 8 (2) 8

4 [a] The share of each of them
= 963 ÷ 3 = 321 pounds.
[b]



15 Damietta

1 (1) 13 (2) 3 000 (3) 200
(4) 37° (5) 21 (6) >
(7) 2 (8) $\frac{2}{5}$ (9) 17 and 13
(10) 3 500 (11) 2 (12) certain
(13) $\frac{5}{8}$ (14) $\frac{2}{3}$ (15) $\frac{1}{2}$
(16) 90 (17) 20 (18) $\frac{14}{20}$
(19) 1 002

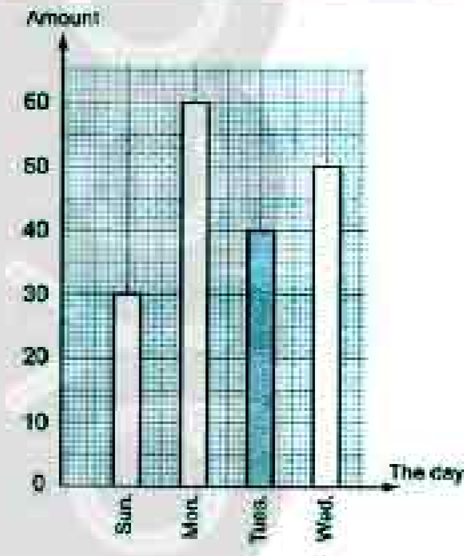
2 (20) 6 + 4 + 5 = 15 (21) 6
(22) 0 (23) 9 (24) 6
(25) $\frac{3}{5}$ (26) 20

3 (27) The share of each son = 200 ÷ 4
= 50 pounds.

ANSWERS OF FINAL EXAMINATIONS

(28)

The day	Sunday	Monday	Tuesday	Wednesday
Amount	30	60	40	50



16 Kafr El-Sheikh

1 (1) 15 (2) possible (3) 12
(4) < (5) 609 (6) 365
(7) The same weight (8) 204
(9) 37 000 (10) 5 (11) 9
(12) 37° (13) 5 to 6 (14) 25

2 (15) $\frac{1}{8}$, $\frac{3}{8}$, $\frac{5}{8}$ and $\frac{7}{8}$
(16) 5 + 5 + 7 = 17
(17) 78 (18) 48 , 96 , 192
(19) 5 , 264 (20) 6 462
(21) 15 , 150 (22) 8

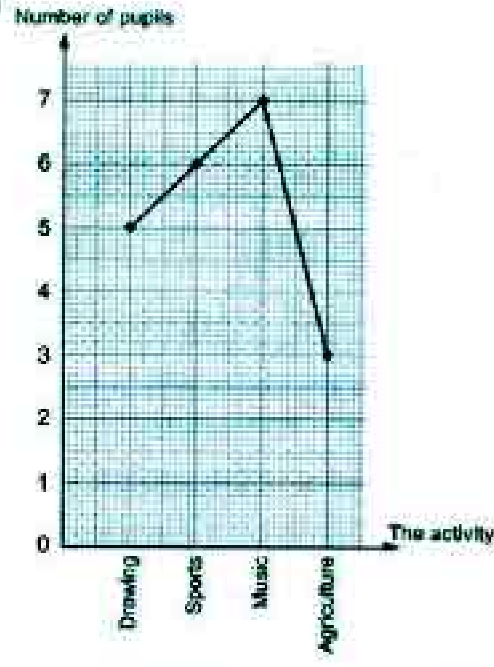
3 (23)



(24) 3

(25) $\frac{6}{11}$
(26) The order is : 24 hours , 24 days and one month
(27) The perimeter of the figure ABED
= 4 + 4 + 3 + 5 + 4 = 20 cm.
(28) $\frac{1}{2}$
(29) The share of each one = 963 ÷ 3
= L.E. 321

(30)



17 El-Beheira

1 (1) 4 200 (2) < (3) 1
(4) 944 (5) < (6) 17
(7) $\frac{4}{7}$ (8) 590 (9) 15
(10) Thermometer (11) $\frac{1}{4}$
(12) < (13) 1 (14) 6
(15) 4 362 (16) $\frac{1}{2}$ (17) 15
(18) 4 (19) $\frac{1}{2}$

2 (20) 2 (21) 0 (22) $\frac{7}{9}$
(23) 135 (24) 8 000 (25) 17 000
(26) $\frac{3}{10}$

3 (27) What Amr paid = 4 × 375 = L.E. 1 500
(28) [a] The perimeter of the rectangle
ABCD = 18 units.
[b] The area of the rectangle ABCD
= 18 □

18 El-Fayoum

1 (1) 515 (2) 6 (3) <
(4) 100 (5) 44 (6) 37
(7) 3 100 (8) 90 (9) >
(10) $\frac{5}{6}$ (11) $\frac{1}{6}$ (12) 24

(13) 8 000 (14) impossible
(15) 12 (16) 8 (17) 47
(18) = (19) 30

2 (20) 560 (21) 7 (22) 5 670
(23) $\frac{1}{2}$ (24) 0 (25) $\frac{6}{7}$
(26) 6

3 (27) The number of tourists in each bus
= 160 ÷ 4 = 40 tourists.
(28) [a] The area of the square = 9 □
[b] The perimeter of the square = 12 units.

19 Beni Suef

1 (1) 1 010 (2) 17 000 (3) >
(4) 4 (5) = (6) 24
(7) 1 (8) 4 (9) certain
(10) 100 (11) 12 (12) 24
(13) $\frac{3}{5}$ (14) 5 (15) hour
(16) $\frac{5}{8}$ (17) 37 (18) $\frac{1}{4}$
(19) 10

2 (20) 0 (21) $\frac{5}{5}$, 1 (22) 990
(23) 0 (24) $\frac{1}{5}$ (25) 5 000
(26) 9

3 (27) The share of each of them
= 842 ÷ 2 = 421 pounds.
(28) [a] The perimeter of the figure = 12 units.
[b] The area of the figure = 6 □

20 El-Menia

1 (1) $\frac{4}{7}$ (2) 440 (3) 2
(4) 1 (5) 14 (6) 82
(7) 11 (8) sure (9) >
(10) 37 (11) 4 (12) 57
(13) 3 000 (14) 72 (15) 1 424
(16) $\frac{4}{5}$ (17) 15 (18) 24
(19) 3

2 (1) 12 (2) $\frac{1}{8}$ (3) 8
(4) 200 (5) 0 (6) 1 212
(7) 4

3 (1) The order is : $\frac{1}{8}$, $\frac{3}{8}$, $\frac{5}{8}$ and $\frac{7}{8}$

(2)

Days	Sat.	Sun.	Mon.	Tues.
Number of visitors	150	250	100	200

21 Assiut

1 (1) 1 (2) < (3) 1 456
(4) impossible (5) 14 (6) 3 000
(7) 9 (8) 312 (9) 5 361
(10) 8 (11) thermometer
(12) $\frac{1}{2}$ (13) $\frac{2}{6}$ (14) even
(15) 12 (16) 6 (17) 6 300
(18) $\frac{3}{7}$ (19) 5 o'clock.

2 (1) 1 (2) $\frac{4}{7}$ (3) 2
(4) 0 (5) 24 (6) $\frac{1}{2}$
(7) 28 000

3 (1) The share of each son = 183 ÷ 3
= 61 pieces.

(2)

Days	Saturday	Sunday	Monday	Tuesday
Number of visitors	25	20	30	15

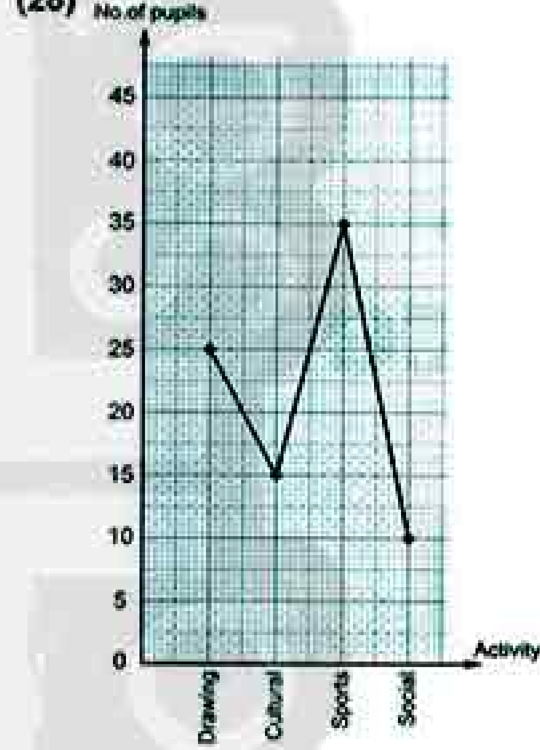
22 Souhag

1 (1) $\frac{5}{6}$ (2) 5 361 (3) 37°
(4) 1 (5) = (6) 407
(7) 8 (8) 1 000 (9) 201
(10) zero (11)
(12) 60 (13) 1

(14) 12 (15) $\frac{3}{7}$
(16) kilogram (17) 10
(18) 270 (19) 2

2 (20) 4 000 (21) 2 (22) $\frac{1}{3}$
(23) 944 (24) 84 , 8 400
(25) $\frac{1}{8}$, $\frac{3}{8}$, $\frac{5}{8}$ and $\frac{7}{8}$
(26) 400

3 (27) The total money = 135 × 8 = 1 080 pounds.
(28)



23 Aswan

1 (1) 37° (2) $\frac{3}{7}$ (3) zero
(4) 4 (5) metre (6) $\frac{2}{6}$
(7) 6 o'clock (8) 6 (9) 1
(10) 5 (11) 61 (12) 25
(13) centimetre (14) 29
(15) 5 (16) 13 (17) 190
(18) possible (19) 407

2 (1) 944 (2) 5 275 (3) 48
(4) 9 (5) $\frac{4}{5}$ (6) $\frac{1}{2}$
(7) Salwa

3 (1) The share of each one = 963 ÷ 3 = L.E. 321
(2) The perimeter of the figure
= 3 + 2 + 3 + 2 = 10 cm.

24 South Sinai

1 (1) < (2)



(3) centimetre (4) 37° (5) $\frac{2}{6}$
(6) $\frac{1}{2}$ (7) 25 (8) $\frac{3}{6}$
(9) 760 (10) = (11) 1
(12) 59 000 (13) thermometer
(14) 25 cm. (15) 4 grams (16) an hour
(17) minutes (18) 135 (19) 3

2 (1) 6 275 (2) 0 (3) quarter
(4) event (5) 7 (6) 3 030
(7) 2

3 (1) $\frac{3}{8}$
(2) The order is : $\frac{1}{10}$, $\frac{1}{8}$, $\frac{1}{5}$, $\frac{1}{4}$, $\frac{1}{3}$ and $\frac{1}{2}$

25 Matrouh

1 (1) 1 (2) 3 (3) $\frac{5}{7}$
(4) < (5) 3 (6) >
(7) > (8) > (9) >
(10) = (11) 4 (12) 22
(13) 24 (14) certain (15) zero
(16) 50 (17) 37° (18) metre
(19) kg.

2 (1) 1 000 , 14 000 (2) $\frac{1}{4}$
(3) 48 , 96 (4) 2
(5) 100 , 7 500 (6) 0 (7) 85

3 (1) The perimeter of the square
= 7 × 4 = 28 cm.
(2) The perimeter of the rectangle
= 7 + 5 + 7 + 5 = 24 cm.